```
45 CACAGCATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTG 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Ki
STATE: P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-827-291A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-827-291A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1115, Ap
Sequence 7, Appli
Sequence 7, Appli
Sequence 47, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Appli
Sequence 39, Appl
Sequence 1, Appli
Sequence 3, Appli
Sequence 3, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5, Appli
5, Appli
1413, Appli
1413, Ap
5, Appli
10, Appl
11, Appl
123, Appl
23, Appl
6, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1312, Ap
Sequence 1056, Ap
                                                                                                                                                                                                                                                        September 14, 2004, 04:05:19; Search time 103 Seconds (without alignments) 5430.976 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .....ctccacgctctagggaagga 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 5,
Sequence 10
Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1
Sequence 2'
Sequence 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Issued Patents NA:*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*

2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*

3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/2/ina/B_COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PcTUS_COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PcTUS_COMB.seq:*
GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-827-291A-1

US-09-465-901-39

US-09-524-901-39

US-09-524-906A-1

US-09-524-730-1

US-09-524-730-3

US-09-524-730-3

US-09-524-730-7

US-09-524-730-7

US-09-524-730-7

US-09-54-906A-7

US-09-16-434-11312

US-09-16-434-1056

US-09-16-434-1413

US-09-16-16-16-17

US-09-16-17

US-09-16-17

US-09-17-17

US-09-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-016-434-1114
US-09-668-680-9
US-08-467-948A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        682709 segs, 277475446 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                          using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 agctggagatctggaacttc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-974-591-13
1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1230
1110035
110035
10035
10035
10052
11065
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
11351
1135
                                                                                                                                                                               nucleic search,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .........
                                                                                                                                                                                                                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       297.8
243.2
243.2
243.5
243.5
243.5
243.5
253.5
253.5
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
253.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  222
220.6
217.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               216.4
214.6
213.6
209.4
2007.8
2007.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        201
                                                                                                                                                                               nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No.
```

```
ö
                                                                                                                                5, Appli
37, Appl
1375, Ap
15, Appl
1376, Ap
                                      Sequence Sequence
                                                                    Sequence
                                                                                         Sequence
                                                                                                             Sequence
                                                                                                                                           Sequence
        Sequence
                                                                                                                                  Sequence
                                                                                                                                                                Sequence
                                                                                                                                                                           Sequence
                                                           Sequence
                              Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1290;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 29.5%; Score 297.8; DB 2; Best Local Similarity 57.4%; Pred. No. 8.2e-83; Matches 536; Conservative 0; Mismatches 397;
               US-09-016-434-1363

US-09-465-901-13

US-09-465-901-29

US-09-465-901-31

US-09-465-901-41

US-09-465-901-41

US-09-016-434-1374

US-09-465-901-32

US-09-465-901-37

US-09-465-901-37

US-09-465-901-37

US-09-465-901-37

US-09-465-901-37

US-09-465-901-37

US-09-465-901-37

US-09-016-434-1375

US-09-016-434-1376
                                                                                                                                                                                                                                                                                                                                                                                           ZUONITE READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: DISKETTE
COMPUTER: DISKETTE
COPERATING SYSTEM: DOS
SOFTWARE: FASISED for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,291A
FILING DATE: 28-MAR-1997
CLASSIFICATION DATA:
APPLICATION NUMBER: US/08/827,291A
FILING DATE: PHINGPRATION:
FILING DATE:
FILING DATE:
FILING DATE:
REGISTRATION NUMBER: 30,954
REFERENTING NUMBER: 30,954
                                                                                                                                                                                                                                                                                                                                          E: SmithKline Beecham Corporation 709 Swedeland Road
                                                                                                                                                                                                                                                                                                        TITE OF INVENTION: NOVEL OLRCC15 RECEPTOR WUMBER OF SEQUENCES: 2 CORRESPONDENCE ADDRESS: ADDRESSEE: SmithKline Beecham Corporation
                                                                                                                                                                                                          ALIGNMENTS
                                                                                                                                                                                                                                                        Sequence 1, Application US/08827291A
Patent No. 5874243
GENERAL INFORMATION:
APPLICANT: Macina, Roberto
APPLICANT: Sathe, Ganesh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION: TELEPHONE: 610-270-5015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1290 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: 610-270-50
TELEFAX: 610-270-5090
                                                                                                                                                                                                                                                                                                                                                               King of Prussia
TOPOLOGY: linear MOLECULE TYPE: CDNA
```

ö 300

셤

g ð 셤

ઠ

g

ò 셤 ò

ò

g

à g ð 엄 ò 셤 ò 음 ∂ 셤 ठ

360

61

121

420

181

480

셤 8 심 à qq à g ò

```
TGAGTTTTCCTTTCTGTAGATCACGAGAGTTAACCACTTCTTCTGTGAGGCACCTGCTG 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTTCCACAGCACCAGACAAGACAACATCTCTCTGTTTTCTACACAATTGTCACTCCAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTACCATTCCCCATCCCAAGACAAATTTTTCTGTGTTCTATACCATTCTCACACCA 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                          241 GGCAGCTCTCTCTCATGGACCTCTGTTCACATCTGTCGTCGTCACTCCCAAGGCCCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTCACTTGTCCTTCATTGACATGATGTACATCTCAACCATTGTGCCCAAAATGCTAGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301 ACTITCTGCGCAGAGAAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62 Arrarcircraggecaaaggacrarriccrirgreggargeacagcreaacacrircrar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 CACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Accreacecregragesecesserrerrerreresecresidentales
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGCCATCTGCAACCCACTGAGGTACCCTGTCCTCATGAGCCGCCGGATCTGTTGGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rcanacascriccnocninges
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rrcrgargcricricarrccrrrcrcrcrgragirarcrcarccrarcccggarrcrgg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGTGCTCCATATGCCCATCAAATGAGGGGGGGGAAGAAAGCCCTTGTCACCTGCTCTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGTCTACCATATGAGCTCTGTGGAAGGAAGAAAGCGTTTGCTACCTGCTCGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACATGACTGTGGTAACCTTGTTTTATGGGGCTGCCATATACACCTATATGGTACCACACT
                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                 Score 243; DB 4; Length 669;
Pred. No. 7.3e-66;
0; Mismatches 265; Indels
       and Using Them
; TITLE OF INVENTION: ad Methods of Making and FILE REFERENCE: 001107.00105
; CURRENT APPLICATION NUMBER: US/09/465,901
; CURRENT APPLICATION NUMBER: US/09/465,901
; PRIOR APPLICATION NUMBER: 60/112,605
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FASISEQ for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 1, Application US/09546986A ; Patent No. 6635741
                                                                                                                                                                                                                                                                                                                                                                    24.1%;
                                                                                                                                                                                                                                                                                                  , OTHER INFORMATION: PCR primer US-09-465-901-39
                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   662 TGCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-546-986A-1
                                                                                                                                                                                                                                                                                                                                                                                                              402;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                           Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        950 GCTGGAGTTATTCTGGCTGTCATTCACATGGGATCTGGAGAGGGTCGTCGCAAAGCTTTC 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCATCCTCACTCCCATGCTGAATCCCCTCATCTACAGCCTCCGCAACAAGAAGTGACC 1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1010 acgaccierrecrereaecreargigangiaging and acgaccaccirrerreard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1070 TACATACAGCCCACATCTGATCGCTCCCAACGCAGGACAAGCTGGTGTCTGTATTCTAC 1129
                                                                                                                  409
                                                                                                                                                                                                           469
                                                                                                                                                                                                                                                                                                                                                                                         589
                       CACATCATGGCAAGGAGAATTCGACCTTCAACTCCGACTTCATCTTCCTGGGAATCTTC 349
                                                                        164
                                                                                                                                                               224
                                                                                                                                                                                                                                                        284
                                                                                                                                                                                                                                                                                                    529
                                                                                                                                                                                                                                                                                                                                               344
                                                                                                                                                                                                                                                                                                                                                                                                                                     404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  885 ACAATTGTCACTCCAGCCCTGAATCCACTCTACAGCCTGAGGAATAAGGAGGTCATG 944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTTATGACCGCTACACTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGCCCT 709
                                                                                                                                                             165 CTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCC
                                                                                                                                                                                                       Treargeanacrereteargerretecrearcreacresacacceaecreacacce
                                                                                                                                                                                                                                                        ATGTACCTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGTCACT
                                                                                                                                                                                                                                                                                                ArighAccriccreacedaacrerecrearedacerearedacerearedacedena
                                                                                                                                                                                                                                                                                                                                            CCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAAACACCATCTCCTTTGGAGGCTGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           710 AAAATTTGTGGACTTATGACTGCCTTTTCCTGGATCCTGGGCTCTACAGATGGAATCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rargereragecacaritrecerreceracióngogoreregogaaarageceacrierie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCCTCCTAT
                                                                      AATGACAGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCC
                                                                                                                AATCACAGCCCCACCCACCCTTCCTTTCTGGTCCTGGCCATCTTTCAGTGGCC
                                                                                                                                                                                                                                                                                                                                                                                      530 CCCAAGATGGCCTTCAACTACCTGTCTGGCAGCAAGTCCATTTCTATGGCTGGTTGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465 AGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATCAGGCATCTTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTGAGTTACCTTCCCTACTAATCCTCTCATGCAATGACACATCAATATTTGAAAAGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              705 ACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATGTCTTGCCCAGTTCCTTCCACAGCACAGACAACAACATCATCTCTGTTTTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 890 ATTTTCATTTGCTCTATAGTAATGCTTGTTTTCCCTGTTGCAATCATCATTGCTTCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCACCTGCTCTTCCCACCTGACTGTGGTTGGGATGTTCTATGGAGCTGCCACATTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 39, Application US/09465901
Patent No.:6492143
GENERAL INFORMATION:
APPLICANT: Reed, Randall
APPLICANT: Yau, King-Wai
APPLICANT: Krautwurst, Dietmar
TITLE OF INVENTION: Olfactory Receptor Expession Libraries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAGCATTCATGAAGATCTCAGGAAAGGGCAAG 1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           945 CGGGCCTTGAGGAGGGTCCTGGGAAATACATG 977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-465-901-39
                                                                                                                350
                                                                                                                                                                                                                                                                                                470
                         290
                                                                      105
                                                                                                                                                                                                         410
                                                                                                                                                                                                                                                   225
                                                                                                                                                                                                                                                                                                                                            285
                                                                                                                                                                                                                                                                                                                                                                                                                                   345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          830
```

540

301

241

600

099

720 481 780 541

```
23.9%; Score 241.2; DB 4;
56.0%; Pred. No. 3.4e-65;
iive 0; Mismatches 358;
                                                                                                                                                                                                           933 AAGGAGGICAIGCGGGCCTIGAGGAGGGICCIGG 966
                                                                                                                                                                                                                                                                 915 AAAGATATGAAGGGGGCTCTGAGGAGACTTCTGG 948
                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1, Application US/09524730 Patent No. 6638733 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best_Local Simitarry,
Matches 456; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-524-730-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  333
                                                                                               873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                      795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                            à
                                                                                                                                                  d
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCACGACAGTCCCTCAGATGCTGGTCAACATGGGCAGTTCCCAGAAGACCATCAGCTAT 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CIGGCCGCCAIGGCCCIGGACCGCIACGIGGCCAGCIGCAAGCCCCIGCACIAIGCCGII 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTA 512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    crearecacegreereristrascascresidescrerescerescricasrescrizese 494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATC 572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGA 632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 555 AACAACTITITCTGTGAGGTGCCGGCGTGATCAAGCTGTCGTGTGCTGACACCGCTATG 614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             633 TATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATA 692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                615 AArGACACCATACTGGCTGTGCTGGTGGCCTTCTTCGTGTTGGTGCCCCTGGCTCTCATC 674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     circicirargecitrariocceggeagicicagarceagicerecaaggacaa 734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                813 GCCACATTCATGTATGTCTTGCCCAGTTCCTTCCACAGCACCAGACAAGACAACATCATC 872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  495 AACTCCTTCGTGCAGGTGGTCCTGACGGTGCAATTGCCATTCTGCGGGGGGGCAGGTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 753 AAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGTTGGGATGTTCTATGGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       735 cacaaggeerringgaacgrenteereecacergargaregreneererrichaeeraeer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rangiaciadecarentadadadecaresecarenterecaresecases de la factoria dela factoria dela factoria dela factoria dela factoria de la factoria del la factoria de la factoria del la factoria de la factoria de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TACTIGITGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAAACACATCTCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (42)...(974)
OTHER INFORMATION: human breast cancer amplified G-protein coupled OTHER INFORMATION: receptor 1 (BCA-GPCR-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ·;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1035;
                                            APPLICANT: Powers, Scott
APPLICANT: Yang, Jianxin
APPLICANT: Vang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Tularik Inc.
TITLE OF INVENTION: NO. 6635741el G-Protein Coupled 1
FILE REPERBUCE: 018781-004720US
CURRENT APPLICATION NUMBER: US/09/546,986A
CURRENT FILING DATE: 2002-04-30
PRIOR FILLING DATE: 2000-03-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches 358;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 241.2; DB 4
Pred. No. 3.4e-65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23.9%;
56.0%;
                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 1035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 456; Conservative
                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORM
US-09-546-986A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ΩD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ρp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         153 TACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGG 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTA 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              315 géadécirécaciterechaitaitecadiciticacitédéardeacedédagitédre 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                435 crcarigence recreterade a crecidade e consecue de 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          555 AACAACTTTTCTGTGAGGTGCCGGCCGTGATCAAGCTGTCGTGTGCTGACACCGCTATG 614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          135 rangrideridecearierregegaacerecearearecregearecegegegareceea 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAACACCCATCTCCTTT 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    255 ACCACGACAGTCCCTCAGATGCTGGTCAACATGGGCAGTTCCCAGAAGACCATCAGCTAT 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  195 crecacadoceccarionacarerrecreadreacerorerrecreadaceracaee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               375 chédececchidecernegacechacéradeceachechechechechechechia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                513 AGIGCCCTAAIAIAIACCGIGIAIACCAIGCACIAICCCIICIGCAGGGCCCCAGGAGAIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         573 AGGCATCTTCTCTGTGAGATCCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTA
                                                                                                                                                                                                                                                                          855 rerecreteratrecarareacecececretearicecricaecracecrasaear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
OKGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
COCATION: (42)...(974)
OTHER INFORMATION: human breast cancer amplified G-protein coupled
OTHER INFORMATION: receptor 1 (BCA-GPCR-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1035;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Powers, Scott
APPLICANT: Yang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
APPLICANT: Tularik Inc.
TITLE OF INVENTION: No. 6638733e1 G-Protein Coupled Receptors
FILE REFERENCE: 018781-004710US
CURRENT APPLICATION NUMBER: US/09/524,730
CURRENT FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
```

```
ATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAG 383
                                                                                                                                                                                          racardedeagricardedeceaearererideereeaeregegegegegerer 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  683 IGCIGCIATACIGGCCICCIATACACAAATICTACICACIGIGCICCATAIGCCAICAAA 742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTACGGAACCATCATCTACGTGTACCTGAAGCCGGCCAACACATACTCCCAAGATCAGGG 929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 930 GAAGTICCIGACICICTICIACACCAICGICATICCCAGCAICAACCCCCICAICTACAC 989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               751 CTCCCTCATCCTCATCT-CTATGGCGTGATTGCAGCCGCGCGGTGCAGGATGAAGTCAGC 809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            743 TGAGGGAGGAAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGGATGTT 802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCAGGGCGAAAGAAGCCTTCCACACCTGCTCTTCTCACCTCACAGTGGTCTCTCTTT 869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAACAICAICTCIGITITICTACACAATIGICACTCCAGCCCTGAATCCACTCATCTACAG 922
                                                                   391 Arcacciaccaccicióricas con a a contra co
                                                                                                                                                                                                                                                          TACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTG
                                                                                                                                   384 GACCICCIACTGGCCTICATGGCCTATGACAGGTATGTGGCCATTTGTCATCCTCTGACA
                                                                                                                                                                                                                                                                                                                                                                                 GCATCCCTAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                           Gecirciahacricaricarerererereadacearecerecegicaeerer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  631 CGCAGGGIGGACCACTICCIGIGIGAGAIGCCIGCTCTIAITGCCAIGTCTTGTGAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACC-TCCAGATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         691 ACCATGCTGGTAGAAGCGATTCACCTTTGCCCTGGGGGTGGCTCTCCTCCTGGTGCCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (118)...(1113)

TOTHER INFORMATION: human breast cancer amplified G-protein coupled

OTHER INFORMATION: receptor 2 (BCA-GPCR-2)
US-09-524-730-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 235.4; DB 4; Length 1411;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DN: No. 6638733el G-Protein Coupled Receptors 018781-004710US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        990 TTTGAGGAACAAGGATGTGAAGGGGACCATGAAGAAGAACTTCTGGG 1034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    923 CCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGG 967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/524,730
CURRENT FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 3, Application US/09524730; Patent No. 6638733; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Powers, Scott
APPLICANT: Yang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Tularik Inc.
TITLE OF INVENTION: No. 66
FILE REFERENCE: 018781-004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-524-730-3
         324
                                                                                                                                                                                                                                                          444
                                                                                                                                                                                                                                                                                                                    511
                                                                                                                                                                                                                                                                                                                                                                                 504
                                                                                                                                                                                                                                                                                                                                                                                                                                           571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                   엄
                                                                                                                             à
                                                                                                                                                                                   qq
                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                              ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                              Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ωp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                       812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4
                                                                                                                             752
                                                                                                                                                                                                                                                                                                                                                                              872
                                                                                                                                                                                          734
                                                                                                                                                                                                                                                                                                                 794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     855 refererreratrecaraareaceeeerereaareeerreaareeeraeaeeereaaaar 914
                                                                                                                                                                                                                                                                                                                                                                                                                              795 GCGATTTACAIGTATCTGCAGCCCCTTCCAGCTACTCCCAAGAGCAGGCAAATTTATT 854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TICATITIGGIGGGGATICTGAALGACAGTGGGTCTCCTGAACTGCTCTGTGCTACAATT 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             151 Trichiccideredecretrereareaccideacresasaaarreicriridereara 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                211 TTGATCTTCTGCATCCTGACCTGCAACACTGCCATCATCTTCTTGCTGGTCATG 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    331 TGCTTTACAGCAAGCATTGCCCCTCAGCTGCTGCAAACCTGGGGGTCCAGAGAGACC 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           264 CIGITCACATCIGICACICCCAAGGCCCTIGCGGACITICIGCGCAGAGAAACAC 323
TATGAGCTCATGCTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATA
                                                                                                                                                                             675 chrchchahgechrahhgeccgaacaahdchcagahccaahcchahagaacaa
                                                      615 AAridacaccáracridacridarderedecerricririceridariecrececridaderenarie
                                                                                                                      753 AAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGGTTGGGATGTTCTATGGAGCT
                                                                                                                                                                                                                                                                                                       735 cácaadederriridegadegrierricerecedecricarearecrierrecerrieracera
                                                                                                                                                                                                                                                                                                                                                                    GCCACATTCATGTATGTCTTGCCCAGTTCCTTCCACAGCACCAGACAAGACAACATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTGTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    144 ACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (118)..(1113)
OTHER INFORMATION: human breast cancer amplified G-protein coupled OTHER INFORMATION: receptor 2 (BCA-GPCR-2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Powers, Scott
APPLICANT: Yang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
TILE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
FILE REFERENCE: 018781-004720US
CURRENT APPLICATION NUMBER: US/09/546,986A
CURRENT FILING DATE: 2002-04-30
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3
LENGTH: 1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 4; Length 1411;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 235.4; DB 4;
Pred. No. 2.6e-63;
0; Mismatches 391;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAGATATGAAGGGGGCTCTGAGGAGACTTCTGG 948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  933 AAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGG 966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3, Application US/09546986A Patent No. 6635741 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
23.4%;
Best Local Similarity 55.6%;
Matches 492; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-546-986A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-546-986A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               915
                                                                                                                                                                                                                                                                                                                                                                    813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    204
                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                   유
                                                                                                                ò
                                                                                                                                                                   셤
                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
```

```
63 AACTICACCTIGGGAAGIGGCTICAITTIGGIGGGAAITCIGAAIGACAGIGGGICICCT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              183 CTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCCATGTACCTCCTGCTTGGG 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCTA 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Grenecergrinerecrerierresicardiargidadecesideregadadeces 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   trircingcagaacanaaagccarccaariccagagcrigigcagcccagriaritricrcc 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACCAGACTTGGGTGAGTGAATTTATTCTCCTCGGCCTGTCCAGTGACTGGGACACTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         243 CAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITCIGCGCAGAGAAACACCAICTCCTITGGAGGCTGTGCCCTTCAGAIGTTCCTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cricacerracionaria de producto esta de contra 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Accirciccingical arcicciange cacaca and accircic accied cacacan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ecrererererecer-cearacresecerrerecarearesasserererererasserre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATGTG
                                                                                                                                                                                                                                                                                                                      Windows/MS-DOS 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 235.2; DB 4;
Pred. No. 2.4e-63;
0; Mismatches 408;
                                               E: INCYTE PHARMACEUTICALS, INC 3174 PORTER DRIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                _{\rm us}
                                                                                                                                                                                                                                                                                                                                                                         US/09/016,434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PA-0002
                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                   Word Perfect 6.1 for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J
REGISTRATION NUMBER: 37,071
REFRENCE/DOCKET NUMBER: PA-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1115:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23.3%;
55.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (650) 845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 952 base pairs TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: HEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS
                                                                                                    CITY: PALO ALTO STATE: CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; LIBRARY: GENBANK
; CLONE: 91336042
US-09-016-434-1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 502; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IMMEDIATE SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                94304
                                                  ADDRESSEE:
                                                                                                                                                                                                                                                                                                                   SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX:
                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              503
                                                                                 143
                                                                                                                                                                                     203
                                                                                                                                                                                                                                           270
                                                                                                                                                                                                                                                                                             263
                                                                                                                                                                                                                                                                                                                                                                                                       323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      384 GACCTCCTACTGGCCTTCATGGCCTATGACAGGTATGTGGCCATTTGTCATCTCTGTGACA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCGTCCTCGTGGTTGTCATGTCCATGACCGCTATGTGCCCGTCTGCCGGTCCCTGCAC 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTCCCTCATCTCTCATCT-CTATGGCGTGATTGCAGCCGCGGTGCTGAGGATGAAGTCAGC 809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTACGGAACCATCATCTACGTGTACCTGAAGCCGGCCAACAGCTACTCCCAAGATCAGGG 929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAACATCATCTCTGTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAG 922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAAGTICCTGACTCTTCTACACCATCGTCATTCCCAGCATCAACCCCTCATCTACAC 989
                                                                                                                                                                                                                                                                                                                                                                                                                                                          331 TGCTTTACAGCAAGCATTGCCCCTCAGCTGCTGTGGAACCTGGGGGGTCCAGAGAAGACC 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cecacecideaccacriccidididadanecrecreratioecarerericidadeaa 690
                                                                                                                                                                                                                                                                                                                                                  TACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCTGCTATACTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAA
                                                                                                                                                                                     144 ACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATG
                                                                                                                                                                                                                                        rrgarcrictaccidaccideredecaacacreccarcarcrictrerrecresidare
                                                                                                                                                                                                                                                                                             CTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u> Arcacchacaceecrerereceaacreracarenearerresecresecreaecaceae</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCATCCCTAAGTGCCCTAATATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGCTTCCTAAACTCCTTCATGTGTCCTCAGACGATGCAGCTCTCCCGGTGTGGACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGAGGGGAGGAAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGGTTGGGATGTT
                                                                              84 ITCATITITGGIGGGGATICIGAAIGACAGIGGGICTCCIGAACIGCICIGIGCIACAAII
                                                                                                                                151 fricarccriegradecrerreraficacerreaacreaaaaaarrererrigererrare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACC-TCCAGATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCT
                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1115, Application US/09016434
Patent No. 650038
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Selhamer
TITLE OF INVENTION:
COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTGAGGAACAAGGATGTGAAGGGGACCATGAAGAAACTTCTGGG 1034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGG 967
                           Indels
Pred. No. 2.6e-63;
0; Mismatches 391;
55.6%;
                           Matches 492; Conservative
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-016-434-1115
                                                                                                                                                                                                                                           211
                                                                                                                                                                                                                                                                                                204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        990
                                                                                                                                                                                                                                                                                                                                                  271
                                                                                                                                                                                                                                                                                                                                                                                                       264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             рþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                             셤
                                                                                                                                                                                     ò
                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                             \dot{\delta}
                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                 ठे
                                                                                                                                                                                                                                                                                                                                                                                                       ð
```

Gaps

.. 7

Length 952; Indels 72

362

422 371

252

302

```
176 ATATTGATTCTGTATTTACTAACTATTTTGGGGAATACCACCATCATTCTGGTTTCTCGT 235
                                                                                                                                                                            355
                                                                                                                                                                                                                    380
                                                                                                                                                                                                                                                           415
                                                                                                                                                                                                                                                                                                     440
                                                                                                                                                                                                                                                                                                                                                                                         500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                740
                                                                                                                                                                                                                                                                                                                                             416 GAGTGCGTCCCCGGCTCTGATGTCCTGTGACCGCTATGTGCCTGTCTGCCGTCCTCTC 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GATACCTCCAGATATGAGCTCATGCTATATGTGATGGGTGTGACCTTCCTGATTCCCTCT 680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGAGGGGAGGAAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGTTGGGATG 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TICTAIGGAGCIGCCACATICAIGIAIGICIIGCCCAGIICCIICCACAGCACCAGACAA 860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          776 GCTACCGGGAGACAGAAAGCATTCGGGACCTGCTTCTCCCACCTGACAGTGGTCACCATC 835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTTATGGAACCATCATCTTCATGTATCTGCAGCCAAGAGTAGATCCAGGGAACCAG 895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GACAACATCATCTCTGTTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTAC 920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCAAGTTTGTTTCTCTCTTCTACACTGTGGTAACCCGCATGCTTAACCCTCTTATTAT 955
                                              CTCCTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAAC
                                                                                                                                                                       cecrecricaccagarerrariceccaecrecreeraaccraegaacccargaaa
                                                                                                                                                                                                                    ACCATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCT
                                                                                                                                                                                                                                                                                                     GAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATGTGGCCCATTTGTCATCCTCTG
                                                                                                                                                                                                                                                                                                                                                                                       441 ACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                               476 CATTACACTGTCTTAATGCATATCCATCTCTGCATGGCCTTGGCATCTATGGCATGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       501 CTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 536 AGTGGAATAGCCACCACCTGGTACAGTCCACCTCACCCTGCAGCTGCCCTTCTGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           561 GCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  596 carceccaagiegarcarricarciecaagicciererecicarcaageriegeri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    decaccacerrraaceaeeereaecrrrrriereceraerarcerrrrecrraraerecer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCA
                                                                                                                                                                                                                                                         356 ACTATCGCCTATGGTGGCTGTTTGGTTCACCTTTACAACTCCCATGCCCTGGGATCCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sequence 7, Application US/09524730 |
| Sequence 7, Application US/09524730 |
| Patent No. 6638733 |
| GENERAL INFORMATION: |
| APPLICANT: Powers, Scott |
| APPLICANT: Cutler, Gene |
| APPLICANT: Tularik Inc. |
| TITLE ON INVENTION: No. 6638733el G-Protein Coupled Receptors |
| FILE REFERENCE: 018781-004710US |
| CURRENT APPLICATION NUMBER: US/09/524,730 |
| CURRENT FILING DATE: 2000-03-14 |
| NUMBER OF SEQ ID NOS: 16 |
| SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               accricacidarcaaccaccicaaaccccarraaacaaacricaacaaa 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     921 AGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGGAAA 970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 7
LENGTH: 1065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              741
                                                                                                                                261
                                                                                                                                                                                                                 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      861
                                                                                                                                                                                                                                                                                                   381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               926
                                                                               g
                                                                                                                           ò
                                                                                                                                                            a
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                    Пр
                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \overset{\sim}{\sim}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                 722
                                                                                                                                                                                                                                                                                                                                         671 ATCCTAAAGATCCAGTCCAGAGGAAGAAGAAGAAGCTTTCCACACGTGTGCCTCTCAC 730
                                                                                                                                                                                                                                                                                                                                                                                     842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGAACCCCATGATTTACAGCCTAAGGAATAAAGAGGTGAAGGGGGGCCTGGCAGAAACTA 910
                                                                                                                                                                                                                                                       611 GTTCTTCTGATGACACCCCTCTGCTTCTTTTGTCCTACATCCAGATCATCTCCACC 670
                                                                                                                                                                                                                                                                                                   782
                                                                                                                                                                                                                                                                                                                                                                                                                    CTCACAGTGGTTGCCCTGTGGTATGGTGGCCATTTTCACTTACATCCAGCCCCACTC 790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTCCACAGCACCAGACAAGACATCATCTTCTTTTTTTTGTCACTTCTCCAGCC 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTCCTCTGTCTTCAGGAGAGTTGTTCTCTGTCTTTTTATGCCATTTTAACACCAATG 850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTC 962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGCTTCATTTTGGTGGGATTCTGAATGACAGTGGGTCTCCTGAACTGCTCTGTGCTACA 140
GCCATCACATCCTGGGTCAGTGGCTTCATCAGCTCTCCTGTGCAGACTGCTATCACCTTT 490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGTTTCATCCTTTTAGGGTTTTCTGATTATGCTCAGTTACAGAAGGTTCTATTTGTGCTC 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACC 200
                                         CACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACTTG
                                                                                 cagcreccentricasaasaasaastraarraarcacararcererereasacrecrascrere
                                                                                                                           CTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTGTG
                                                                                                                                                                   551 grcagecregerreregacaccrecrecaardagercaccarcargereradearr
                                                                                                                                                                                                               ACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCACT
                                                                                                                                                                                                                                                                                                                                                                                     GTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCCTTGTCACCTGCTCTTCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: human breast cancer amplified G-protein coupled OTHER INFORMATION: receptor 4 (BCA-GPCR-4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Powers, Scott
APPLICANT: Yang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
APPLICANT: Tularik Inc
TITLE OF INVENTION: No. 6655741e1 G-Protein Coupled Receptors
FILE REFERENCE: 018781-004720US
CURRENT APPLICATION NUMBER: US/09/546, 986A
CURRENT FILING DATE: 2002-04-30
PRIOR PLICATION NUMBER: US 09/524,730
PRIOR PLING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOUTHARE PATENTING PATE: 2.1
SOUTHARE PATENTING DATE: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23.1%; Score 232.4; DB 4; Length 1065;
larity 53.8%; Pred. No. 1.9e-62;
Conservative 0; Mismatches 411; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 7, Application US/09546986A Patent No. 6635741 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGGGAAAATAC 974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTATGGAAATTC 922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..(1030)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
Matches 479; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CDS
LOCATION: (26)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -09-546-986A-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-546-986A-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     843
                                         543
                                                                                   491
                                                                                                                                                                                                                                                                                               723
                                                                                                                                                                                                                                                                                                                                                                                   783
                                                                                                                                                                                                                                                                                                                                                                                                                           731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                       à
                                                                               셤
                                                                                                                           ò
                                                                                                                                                            ద
                                                                                                                                                                                                           ⋧
                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                           음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

```
Sequence 47, Application US/09465901
Patent No. 6492143
                                                                                                                                                                                                                                                                                                                                                       ,
0
                                                                                                                                                                                                                                                                                                                             22.8%;
                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: PCR primer US-09-465-901-47
                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                               musculus
                                                                                                                                                                                                                                                                                                                                           Similarity
                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                       494;
         US-09-465-901-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        422
                                                                                                                                                                                                                                                                                                                                                                                                                                    122
                                                                                                                                                                                                                                                                                                                                                                                   62
                                                                                                                                                                                                                                                                                                                              Query Match
Best Local 8
                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                ô
                                                                                                                                                       140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              741 AATGAGGGAGGAAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGTTGGATG 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GACAACATCATCTCTGTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTAC 920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               955
                                                                                                                                                                                 175
                                                                                                                                                                                                            200
                                                                                                                                                                                                                                     235
                                                                                                                                                                                                                                                               260
                                                                                                                                                                                                                                                                                         295
                                                                                                                                                                                                                                                                                                                  CTCCTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAAC 320
                                                                                                                                                                                                                                                                                                                                            355
                                                                                                                                                                                                                                                                                                                                                                     380
                                                                                                                                                                                                                                                                                                                                                                                               415
                                                                                                                                                                                                                                                                                                                                                                                                                         GAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATGTGGCCCATTTGTCATCCTCTG 440
                                                                                                                                                                                                                                                                                                                                                                                                                                                 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCAGGAGATCAGCCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCT 620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             596 carceccaagrearcarricarcrecaagrecererecrearcarcaageridecrigiere 655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   716 grerearrearceregrereceregenacarreceaegeaegerereaegarraagrea 775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTACCGGGAGACAGAAAGCATTCGGGACCTGCTTCTCCCACCTGACAGTGGTCACCATC 835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gecaccacertraaceaecereaecirririereecraerarecerrireciraraereecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGCAAGTITGITTCTCTCTACACTGTGAAACCCGCATGCTTAACCCTTTATTAT
                                                                                                                                                                                                                                                                               CATTACACTGTCTTAATGCATATCCATCTCTGCCATGGCCTTGGCATCTATGGCATGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGG
                                                                                                                                                                                 GGTTTCATCCTTTTAGGGTTTTTCTGATTATGCTCAGTTACAGAAGGTTCTATTTGTGCTC
                                                                                                                                                                                                            ATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACC
                                                                                                                                                                                                                                     ATATTGATTCTGTATTTACTAACTATTTTGGGGAATACCACCATCATTCTGGTTTCTCGT
                                                                                                                                                                                                                                                               cecnecrircaccaecaererrarrececaecrecrestaaaccrereseaacccareaa
                                                                                                                                                                                                                                                                                                                                                                     ACCATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCT
                                                                                                                                                                                                                                                                                                                                                                                               <u> acrariceccrariedrescricirrescririacaacricearecceriescareceaer</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           536 AGTGGAATAGCCACCACCCTGGTACAGTCCACCCTCACCCTGCAGCTGCCCTTCTGTGGG
                                                                                                                                                       GGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTCTCCTGAACTGCTCTGTGCTACA
                                                                                                                                Gaps
      FEATURE:

NAME/KEY: CDS

LOCATION: (26)...(1030)

OTHER INFORMATION: human breast cancer amplified G-protein coupled

OTHER INFORMATION: receptor 4 (BCA-GPCR-4)

US-09-524-730-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGGAAA 970
                                                                                                                              ;
0
                                                                                                      Length 1065
                                                                                                                              Indels
                                                                                                                             0; Mismatches 411;
                                                                                                    Score 232.4; DB 4
Pred. No. 1.9e-62;
                                                                                                   23.1%;
53.8%;
                                                                                                    Query Match
Best Local Similarity 53.8<sup>3</sup>
Matches 479; Conservative
Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       861
                                                                                                                                                                                   116
                                                                                                                                                                                                             141
                                                                                                                                                                                                                                     176
                                                                                                                                                                                                                                                                                          236
                                                                                                                                                                                                                                                                                                                                             296
                                                                                                                                                                                                                                                                                                                                                                                                356
                                                                                                                                                                                                                                                                                                                                                                                                                         381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    801
ORGANISM:
                                                                                                                                                          81
                                                                                                                                                                                                                                                                 201
                                                                                                                                                                                                                                                                                                                   261
                                                                                                                                                                                                                                                                                                                                                                        321
                                                                                                                                                                                                                                                                                                                                                                                                                                                     416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ΩD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                 d
                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                           Db
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                              Ωp
                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   рp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                          8
                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                   à
```

```
421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  606 TITICAGCCICCIGGGCACTCIGGCTGCCACCTGCTGCTGCCACAITCTCTAIAC 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCCATGTACCTCCTGCTTGG 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      246 carcarcacadakararaadaccarcheceraceadarigirrecrecaagearrecrera 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 302 CTTTCTGCGCAGAGAAACACCATCTCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              242 GCAGCICICICICATGGACCICCIGITCACAICIGICGICACTCCCAAGGCCCTTGCGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            306 Tricriccindecaccacidadiricrirciacidecacidaidricinidacaddiaid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             482 GGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        426 rererrrecricaresarerersearrecricercarcaracrecrastrearrerar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  486 TCAGCAGCCATTCTGTGGCCCAAACATCATTAATCATTTCTTCTGTGACAACTTTCCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GACCTTCCTGATTCCCTCTTCTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         126 caicaicticarcàccerreiggacagegectiriadaceeectatarracticeeee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  186 caacrirgccaigciggagaicrggricaccicigicaicricccaagargcraacca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  366 GGCCATTTGTAACCCTTTGCGTTATGCCACCATTATGAGCAAAAGAGTCTGTGTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAACTICACCTIGGGAAGIGGCTICATITIGGIGGGAITCTGAAIGACAGIGGGICTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   542 GCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              546 TATGGAACTCATATGTGCAGATACTAGCCTGGTAGAGTTCCTGGGTTTTGTTATTGCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 GAACAGCACTACTGTTACTGAGTTTATTTTGCTGGGGCTGTCAGATGCCTGTGAGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          362 ACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               66 GGTGCTCATATTCCTGGGCTTTCTCCTGACCTACTTCCTCATTCTGCTGGGAAACTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ٠.
ن
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 951;
GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Reed, King-Wai

APPLICANT: Yau, King-Wai

APPLICANT: Krautewarst, Dietmar

TITLE OF INVENTION: Olfactory Receptor Expession Libraries

TITLE OF INVENTION: ad Methods of Making and Using Them

FILE REFERENCE: 001107, 00105

CURRENT APPLICATION NUMBER: US/09/465,901

CURRENT FILING DATE: 2001-12-17

PRIOR APPLICATION NUMBER: 60/112,605

PRIOR APPLICATION NUMBER: 60/112,605

NUMBER OF SEQ ID NOS: 57

SEQ ID NO 97

SEQ ID NO 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 229.6; DB 4;
Pred. No. 1.4e-61;
0; Mismatches 419;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
```

627 595 687 747

807

387

```
176 CATCTCTACACCCCCATGTACTTCTTTCTGGCCAACTTGTCTCTCCTGGAGATTGGCT 235
                                                                                                                                                                                                                                                                          356 GCCTATTGGCAGCCATGGCCTTTGACCGCTATATGGCTATATGTTCCCCACTCCACTATG 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGCTGCCACATTCATGTATGTCTTGCCCAGTTCCTTCCACAGCACCAGACAAGACAACA 867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCAACATCTGCCACCTATTTGAGGTCCAAGTCTAGCCACTCACCAGGAGTGGACAAAC 835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTTGGCCCTCTTCTATACATCAGTGACATCCATGCTGAATCCCATCATCTACAGCTTAA 895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCATCTCTGTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGA 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAGATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cccaaaardadgccrgccarcrrrgrgccagcagrgcrcrgccrararrragccarrrrrac
                                                268 TCACATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAACACCATCT
                                                                                            CCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACC
                                                                                                                                                                                  296 criggéagégriérécercacagarérierrerrerrerresrargeraracigagreer
                                                                                                                                                                                                                              TCCTACTGGCCTTCATGGCCTATGACAGGTATGTGGCCATTTGTCATCCTCTGACATACA
                                                                                                                                                                                                                                                                                                                    448 TGACCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCAT
                                                                                                                                                                                                                                                                                                                                                                416 CAACCCGAATGAGTCGTGGGGTATGTGCCTATTTGGCAATTGTCTCATGGGTGATGGGAT
                                                                                                                                                                                                                                                                                                                                                                                                          508 CCCTAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCATAGTAGGTCTGGGACAGACCAATTTTATTTCTCCTTGAACTTCTGTGACCCTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGATCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGTGCTGATACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            536 AGATAGACCACTTCTTCTGTGACCTTCCACCTCCCTGGCACTTGCCTGTGGTGATACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              688 CTATACTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          656 TGATCATTTCTTCCTATGTCAGAATTCTCGTTGCAGTGCTGGTGATGCCTTCACCTGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAGGAAGAAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGTTGGGATGTTCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1312, Application US/09016434

Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice AL-Young
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGAATAAGGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGG 967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAACAAGGAAGTAAAGGGTGCACTGAGAAGAACTCTGGG 935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3: INCYTE PHARMACEUTICALS, 3174 PORTER DRIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDALL 31,7 .
CITY: PALO ALTO
THE: CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-016-434-1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94304
                                                                                                                                        328
                                                                                                                                                                                                                                 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          928
                                                ઠે
                                                                                            g
                                                                                                                                    ò
                                                                                                                                                                           Dp
                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                     868
    781
                                                                                                                                  726 TATTATIGIGGEGETCTCTTCTACGGCAGCTGTATCTTCATGTATGTCCGGCTCTGGCAA 785
                                                                                                                                                                                                                                                                    899 AGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAG 958
                                                                                                                                                                                                                                                                                                                846 CACACTCAACCCCTTCATCTACACTCTGAGGAACAAGCAGGTGAAGCAGGTATTTAGGGA 905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      148 TCCTATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAG 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  116 TCATGITCITAGIATCACTAACAGGAAATACTCTCATAGCCCTTGCTATTTGTACCAGTC 175
TGTGCTCCATATGCCATCAAATGAGGGAGGAAGAAGAAGCCCTTGTCACCTGCTCTTCCCCA
                                666 CATICTACACATICCTICAGCCAAGGAAGGAAGAAAAGCCTICICAACTIGCICCTCCA
                                                                                                                                                                              TICCTICCACAGCACAAGACAACAICTCTCTGTTTTCTACACAATTGTCACTCC
                                                                                                                                                                                                                          786 GAATGGACAGGGGAGGATCATAACAAGGTGGTGGCATTGCTCAACACTGTAGTGACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 966;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPOUTE: TACAPT WITH A COMPOUTE: WAS CLASSIFICATION NOWBER: WG 60/033,751

FILING DATE: 09-NOV-1995

CLASSIFICATION: 435

CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22.5%; Score 226.4; DB 3; llarity 54.8%; Pred. No. 1.4e-60; Conservative 0; Mismatches 371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7, Application US/08748506
Patent No. 6159707
GENERAL INFORMATION:
APPLICANT: Ronnett et al.
TITLE OF INVENTION: NOVEL SPERM RECEPTORS
NUMBER OF SEQUENCES: 31
CORRESPONDENSES:
ADDRESSE: Leydig, Voit & Mayer, Ltd.
STREET: Two Prudential Plaza, Suite 4900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
REFRENCE/DOCKET UNMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-616-5600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                            959 GGTCCTGGGAAATAC 974
                                                                                                                                                                                                                                                                                                                                                                                                   906 ACACGTAAGCAAGTTC 921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
3: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTEX: CZIP: 60601-6780
COMPUTER READABLE FORM:
WENTIM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 966 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 449; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDALL
STREET: 1wc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-748-506-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-748-506-7
                                                                                                                                                                                                                                                                                                           음
                                       g
                                                                                        ઠે
                                                                                                                           qq
                                                                                                                                                                           ò
                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

824

764

```
974 gcaagaatrerecerecarecreaaggreetrierreraaggraterecaaggeerre 1033
                                                                                                                                                                                                                                                                                                                                                     1094 TACTTATGCTCATCAGCTAATAGTTCTACTCTAAAGGACACTGTCATGGCTATGATGTAC 1153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1154 ACTGTGGTGACCCCCATGCTGAACCCCTTCATCTACAGCCTGAGGAACAGAGACATGAAG 1213
                                                                                                                                                                                                             1034 rcracrigregericecacciercierefegiereacrierrerardeaaceerrarregrere
                                                                                                                                                     765 GTCACCTGCTCTTCCCACCTGACTGTGGTTGGGATGTTCTATGGAGCTGCCACATTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                           885 ACAATTGTCACTCCAGCCCTGAATCCACTCATACAGCCTGAGGAATAAGGAGGTCATG
                        705 ACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAAGAAAGCCCTT
                                                                                                                                                                                                                                                                                      825 TATGICTIGCCCAGTICCTICCACAGCACCAGACAACAACAICAICTCTGTTTTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1055, Application US/09016434

Patent No. 6500938

GENERAL INFORMATION:
APPLICANT: Jainice Au-Young
APPLICANT: Jainice Au-Young
APPLICANT: OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSE: INCYTE PHARMACEUTICALS, INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Word Perfect 6.1 for Windows/MS-DOS 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 222.6; DB 4;
Pred. No. 3.2e-59;
0; Mismatches 449;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US/09/016,434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1214 GGAGCCCTGAGCAGAGTCAT 1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: PA-00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEPAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1056:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     37,071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   945 CGGCCTTGAGGAGGGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 22.1%;
Best Local Similarity 52.3%;
Matches 492; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 1990 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: HEREWITE CLASSIFICATION: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: 1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; CLONE: 91041044
US-09-016-434-1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IMMEDIATE SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-016-434-1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              314 CAGAGCATGATGGGACAAAATCAAACCAGCATCTCAGACTTCCTGCTCCTGGGCCTGCCC 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGTACCTCCTGCTTGGGCAGCTCTCTCTTGAGGCCTCCTGTTCACATCTGTCGTCACT 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTGTGCC 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cccaagrigitacagaacargcagaaccaggacccarccarccrargcgacrigcrig 613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  614 accelabricinerrecrientaringas de consensas de consensas en esta en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          674 GCCTATGACCGCTATGTGGCCCATCTGCTTCCCCCTGCACTACACCGCCATCATGAGGCCCC 733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           734 Argerergreregeceregischesteriesischesteriene Argererien 793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             525 TATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTC 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            794 cacactriacreargeceaggirereriririerecagacaarerearececececeririre 853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  585 TGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 854 rigidaliariererecretecidaakieriedeetrerererekereereeagilaareegie 913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   645 GIAIAIGIGAIGGGIGIGACCIICCIGAIICCCICICIIGCIGCIAIACIGGCCICCIAI 704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     914 ATATTTATCATGGGGGCTCATTCTTGTCATCCCATTCCTACTCTTGGGTCCTAT 973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   434 CTCCTGGGGAACCTCCTCATCATTGTCCTCATTCGACTGGACTCCCATCTCCACGCCT 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            45 CACAGCATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGATTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               374 ATCCAACCAGAGCAGCAAAACCTGTGCTATGCCCTGTTCTTGGCCATGTATCTTACCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ArcharmentricicadeaAcmentercrisacerchecinerricecrisedar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGACAGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches 434; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 225.6; DB 4 Pred. No. 3.6e-60;
                                                                                                                                                                                                                    CLASSIFICATION:
ATTORNEY AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELEPHONE: (650) 855-0555
TELEPAX: (650) 845-416
INFORMATION FOR SED ID NO: 1312:
SEQUENCE CHARACTERISTICS:
LENGTH: 1854 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                  US/09/016,434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22.4%;
52.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 52.8'
Matches 486; Conservative
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: HEREWITH
CLASSIFICATION:
                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IMMEDIATE SOURCE:
LIBRARY: GENBANK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LIBRARY: GENBANK
; CLONE: 932085
US-09-016-434-1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d
```

0

Gaps

coupled

```
APPLICANT: Cutler, Gene
APPLICANT: Tularik Inc.
TITLE OF INVENTION: No. 6635741e1 G-Protein Coupled Receptors
FILE REFERENCE: 018791-004720US
CURRENT APPLICATION NUMBER: US/09/546,986A
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 09/524,730
PRIOR APPLICATION NUMBER: US 09/524,730
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PATENTIN Ver. 2.1
LENGTH: 1351
                                                                                                                                                                                                                                   LOCATION: (86)..(1108)
OTHER INFORMATION: human breast cancer amplified G-protein
OTHER INFORMATION: receptor 3 (BCA-GPCR-3)
                                                                                                                                                                                           ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                           NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                            Best Local Sim:
Matches 441;
                                                                                                                                                                                                                                                                                 US-09-546-986A-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                             309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     789
                                                                                                                                                                                                                                                                                                                                                                                                   249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               631
                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        691
                                                                                                                                                                                                           FEATURE
                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ωp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Greachegiccadaecaecarceaeceraecaeceraecerrerereres and 1017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rearririerchereaegreceaegreraarreaererechereaagaeaecreeraeaa 1077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1318 rererrerárgekordegekerrekerrekerrakekererreganakekeekerekakakaka 1377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1138 rérciciriacegaeccariaccrescéasischeacearraacresceacaseacears
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               214
                                                                                                                                                                                                                                                                                                                                                                                                                                                            957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               934
                                                                                                                                                                657
                                                                                                                                                                                             274
                                                                                                                                                                                                                    ccacrorccandracriring circucaachichicerichideachichenthicaceae 717
                                                                                                                                                                                                                                                                                                                                                                                                                               514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             814
                                                                       GGGGATICTGAATGACAGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATA 154
                                                                                                   GGGCTTCTCTGAACACCCAGGGCTGGGAAGGACTCTCTTCGTGGATGTCATCACTTCCTA 597
                                                                                                                                                                                                                                                 275 TGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAAACACCATCTCCTTTGG 334
                                                                                                                                                                                                                                                                            GAGTTGTGTTCCCCAAATGCTGGCCAACCTCTGGGGCCCAAAGAAGAGACATCAGCTTCCT 777
                                                                                                                                                                                                                                                                                                           AGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACT 394
                                                                                                                                                                                                                                                                                                                                      778 géactigororgicolágatoritolatorociferocológosocaloradores es 27
                                                                                                                                                                                                                                                                                                                                                                   GARAGIGATGGCTTTTGATCGCTACGTGGCTGTCTGCCAGCCCCTCCACTATGCCACCAT 897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCCCTAATATATACGGTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATCAG 574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     874
                  94
                                          CAGGTACAACAAGAACAGGCCATGGATAACCAAAGCTCCACACGGGCTTCCTCCTTCT
                                                                                                                                                           ccrccraacccraagedcaacacrccarccrecrecrecrececreseacaccaager
                CTGGAACTACCACAGGATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGT
                                                                                                                                CTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCT
                                                                                                                                                                                          CATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                       readarccaderecracificarcracarcradericarecracarcraderica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAAGCCCTTGTCACCTGCTTTCCCACCTGACTGTGGTTGGGATGTTCTATGGAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1198 AAAGGCCTTTGGGACCTGCTCCTCCATCTCACTGTGGTCACCCTCTTCTACAGCTCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CACATTCATGTATGTCTTGCCCAGTTCCTTCCACAGCACAGACAACATCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCATCTTCTCTGTGAGATCCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   935 GGAGGTCATGCGGGCCTTGAGGAGGGTCCTGGGAAAATACA
                                                                                                                                                                                          215
                                                                                                                                                                                                                                                                                                           335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1378
                35
                                            478
                                                                                                   538
                                                                                                                                155
                                                                                                                                                                                                                                                                              718
                                                                                                                                                                                                                                                                                                                                                                   395
                                                                                                                                                                                                                                                                                                                                                                                               838
                                                                                                                                                                                                                                                                                                                                                                                                                            455
                                                                                                                                                                                                                                                                                                                                                                                                                                                       868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           875
                                         g
                                                                                              ď
                                                                                                                                à
                                                                                                                                                           엄
                                                                                                                                                                                        à
                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                            qq
                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                à
                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ठे
```

ö 151 TATACTIGITGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCC 210 428 TTTACATGGTATCGATCTTGGGCAATGATCATCATCTGGTCTCCCATACAGATGTGC 308 Accrecacacacaratratratratratraccaacaratratratratratratra 368 CATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAGAAACACACCATCTCCT 330 TIGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCC 390 ATGGAGGGTGTGTGTCCAGTTCTATATCTCCCATTGGCTGGGGGCAACCGAGTGTGTCC 488 690 GGAAGAAGCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGGATGTTCTATGGAG 810 549 rcarraidearceacagerrrécerresseraserrrescerécrésérisses de 608 848 909 GCATCATCTTCATGTATCTCCAGCCAAGAGCACCTCCCATGAGGAGGAGGAAGTTCA 968 reaccaerrerrraccadaraccecercarrarccaacreserrereradaraccaece 728 TGCTGGCCACCATGTCCTATGACCGCTACGCTGCCATCTGCAGGCCACTCCATTACACTG CCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCC ccaccaccarrercccacaccrccrcecracercrcreeesaccacacacaaaaaccaraager TAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGA GATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTA 729 TCAATGAGATGAGATGTACCTGGCCAGCTTTGTCTTTGTCTTGTCCTGCCTCA TACTGGCCTCCTATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGA recregateretrasegecaearrececegecererreaagareagaeareagae GGAGAAAGGCATTCAACACCTGTTCTTCCCACGTGGCTGTGGTGTCTCTGTTTTACGGGA TCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCA CTGCCACATTCATGTATGTCTTGCCCAGTTCCTTCCACAGGCACCAGACAAGACAACATCA Gaps 0 22.0%; Score 222; DB 4; Length 1351; llarity 54.7%; Pred. No. 4e-59; Conservative 0; Mismatches 365; Indels 849 811 751 ઠે g 8

Sequence 5, Application US/09546986A Patent No. 6635741 GENERAL INFORMATION APPLICANT: Powers, Scott APPLICANT: Yang, Jianxin

RESULT 14 US-09-546-986A-5

```
871
                                 691
                                                                                                                                                                                           QQ
                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                       à
                                                          g
                                                                                                                      염장
                               ð
                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   o;
                     210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    631 GATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTTGCTGCTA 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGGAGGCTGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCC 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGGAGGGGGGGGGCCAGTTCTATATCTCCCATTGGCTGGGGGCAACCGAGTGTGTCC 488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recresceaccaretecrarsacescraescraecarerscraescraerecarracaere 548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCTCATGAGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCC 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            549 rearrandearceacerridecrudosciaderruosecriceideciosedoses 608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               511 TAAGIGCCCTAATATATACCGIGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGA 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               571 TCAGGCATCTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCA 630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  669 rcgaccacrrcritrigcgagargccccrcarrargcaacrggcrrgrgrgaraccagcc 728
TCTCTGTTTTTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGA 930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       369 CCACGAGCATTGTCCCACAGCTCCTGGCTAACCTCTGGGGACCACAGAAAACCATAAGCT 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rrracarderarcearcrresseaarescarcarcarrersserecearacasarses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATCTGTCGTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAACACCATCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   151 TATACTTGTTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: human breast cancer amplified G-protein coupled OTHER INFORMATION: receptor 3 (BCA-GPCR-3)
                                                                                                                                                                                                                                APPLICANT: Powers, Scott
APPLICANT: Vang, Jianxin
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
APPLICANT: Cutler, Gene
TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
FILE REFERENCE: 018781-00471008
CUTRENT APPLICATION NUMBER: US/09/524,730
CUTRENT FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 5
LENGTH: 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 22.0%; Score 222; DB 4; Length 1351; Best Local Similarity 54.7%; Pred. No. 4e-59; Matches 441; Conservative 0; Mismatches 365; Indels
                                                                                                 1029 Acacgdadgicaadadcdccrccdd 1054
                                                                   931 ATAAGGAGGTCATGCGGGCCTTGAGG 956
                                                                                                                                                                                  Sequence 5, Application US/09524730 Patent No. 6638733
                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: CDS
LOCATION: (86)..(1108)
                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                    RESULT 15
US-09-524-730-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORM
US-09-524-730-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            391
   871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ^{0}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                               qq
                                                                   \dot{\delta}
   ठे
```

		•			

```
Sequence 11, Appl Sequence 11, Appl Sequence 11, Appl Sequence 27, Appl Sequence 275, Appl Sequence 198, Appl Sequence 198, Appl Sequence 513, Appl Sequence 513, Appl Sequence 25, Appl Sequence 25, Appl Sequence 25, Appl
                                                                                                                      September 14, 2004, 06:20:57; Search time 530 Seconds (without alignments) 9569.387 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 13,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 13,
                                                                                                                                                                                                                                               1 agctggagatctggaacttc.........ctccacgctctagggaagga 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Published Applications NA:*

1: /cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/USO7_NEW PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/USO6_NEW PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/USO6_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/USO7_NEW PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/PCTUG_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
12: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
15: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
16: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
18: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-886-055-198
US-09-804-291-198
US-10-343-650A-513
US-10-220-382-39
US-10-300-846-25
US-10-024-444B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-974-591-13
US-09-974-149-13
US-09-974-591-11
US-09-977-789-10
US-09-974-149-11
US-09-777-789-8
US-10-017-161-309
US-10-292-798-275
                                                                                                                                                                                                                                                                                                                                                                                              of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                       3304383 seqs, 2515761380 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                    using sw model
                                                                                                                                                                                                                                                                                        IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                       seq length: 0 seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-974-591-13
1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1008
11008
11008
11008
11008
1351
1351
1351
951
951
951
951
                                                                                    nucleic search,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1006.4
1006.4
1006.4
962.8
962.8
947.8
947.8
832.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score
                                                                                                                                                                                                                                  score:
                                                                                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                Total number
                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB &
Maximum DB s
                                                                                    OM nucleic
                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                          Title:
Perfect
                                                                                                                             Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Result
No.
```

Sequence 635, App Sequence 45, Appl Sequence 40, Appl Sequence 418, App Sequence 430, App Sequence 430, App Sequence 51, App Sequence 139, App Sequence 478, App Sequence 27, Appl Sequence 27, Appl Sequence 102, App Sequence 176, Sequence 711, App Sequence 623, App Sequence 489, App Sequence 597, App Sequence 15, Appl Sequence 15, Appl Sequence Sequence 0 US-0-017-161-635 0 US-09-777-789-45 0 US-09-846-45 0 US-09-886-055-438 0 US-09-886-055-430 0 US-09-886-05-430 0 US-09-886-05-430 0 US-09-886-05-430 0 US-09-886-05-431 1 US-09-86-29-139 1 US-09-86-29-139 1 US-09-86-22-29 1 US-09-96-422-29 1 US-09-96-423-29 1 US-09-96-29-176 1 US-09-98-291-176 1 US-09-98-291-176 1 US-09-88-291-176 1 US-09-88-291-176 1 US-09-88-291-176 1 US-09-88-291-176 1 US-09-88-63-1176 1 US-10-117-111-1111 US-10-292-798-597 US-09-965-422-15 US-10-017-161-13 15 10 10 10 10 10 100 110 110 110 110 110 1033 5047 11110 11110 11110 9528 9758 9751 13511 13511 13511 14351 14351 14351 1554 948 31.4 31.3 30.8 335 325.8 325.8 325.8 325.8 325.8 325.8 325.8 317.8 315.8 315.8 310.8 309.2 713.8 505.4 505.4 340.2 340.2 340.2 316.4 316.4 316.4 316.4

ALIGNMENTS

```
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Grosse, William M
APPLICANT: Grosse, William M
APPLICANT: Grosse, William M
APPLICANT: Depley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spytek, Kimberly A
TITLE OF INVENTION: No. US20030059830Alel Single Nucleotide Polymorphisms for Olfactol
TITLE OF INVENTION: Receptor-like Polypeptides and Nucleic Acids Encoding
TITLE OF INVENTION: Les Same
FILE REPERENCE: 15966-664 CIP
CURRENT APPLICATION NUMBER: US/09/974,591
CURRENT APPLICATION NUMBER: 60/245,292
PRIOR APPLICATION NUMBER: 60/245,292
PRIOR APPLICATION NUMBER: 2000-11-02
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AGCTGGAGATCTGGAACTTCCACAGCATGGAGCTCTGGAACTACCACAGCATGGAGCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 10; Length 1008;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 1008;
100.0%; Pred. No. 0;
ive 0; Mismatches
                    Sequence 13, Application US/09974591 Publication No. US20030059830A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best_Local Similarity 100.
Matches 1008; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: CDS
LOCATION: (27)..(998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-974-591-13
US-09-974-591-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
```

## APPLICANT: Grosse, William M ## APPLICANT: Lepley, Denise M ## APPLICANT: Padigaru, Muralidhara ## APPLICANT: Padigaru, Muralidhara ## APPLICANT: Padigaru, Muralidhara ## APPLICANT: Bader, Joel S ## TITLE OF INVENTION: Methods of Use for No. US20030175705Alel Single Nucleotide ## TITLE OF INVENTION: Mothods of Olfactory Receptor-like Polypeptides ## TITLE OF INVENTION: Mothods of Olfactory Receptor-like Polypeptides ## TITLE OF INVENTION: Mothods of Olfactory Receptor-like Polypeptides ## TITLE OF INVENTION: Mothods of Olfactory Receptor-like Polypeptides ## TITLE OF INVENTION: ADVISE: 2002-05-20 ## RILING DATE: 2001-09-20 ## RILING DATE: 2001-09-20 ## SEQ ID NO 13 ## CRAMISM: Home sapiens ## TRATURE: PatentIn Ver. 2.1 ## SEQ ID NO 13 ## CRAMISM: Home sapiens ## REATURE: ## REATURE: ## REATURE: ## RAME/KEY: CDS ## COATION: (27):.(998) ## US-09-974-149-13	Query Match 100.0%; Score 1008; DB 10; Length 1008; Best Local Similarity 100.0%; Pred. No. 0; 0 Indels 0; Gaps 0; Qy 1 AGCTGGAGATCTGGAACTTCCACAGCATGGAGCTCTGGAACTACCACAGCATGGAGCTCT 60 0 0 Db 61 GGAACTTCACCTTGGCAACTTCCACAGCATGTGAGCTCTCT 60 0 0 Qy 61 GGAACTTCACCTTGGGAACTGCTTCATTTTGGTGGGATTCTGAATGACAGTGGTCTC 120 0 Db 61 GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTCTC 120 Qy 61 GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAAGGGGTCTC 120 CQ 61 GGAACTTCACCTTGGGAAGTGGCTTCATTTTTGGTGGGGATTCTGAAGTGGGTCTC 120 CQ 61 GGAACTTCACCTTGGGAAGTGGCTTCATTATTGTGGGGGGATTCTGAAGAGTGGTCTC 120 CQ 61 GGAACTTCACCTTGGGAAGTGGCTTCATTGTTGGTGGGGATTCTGAACAGGGATCTC 120 CQ 61 GGAACTTCACCTTGGGAAATTACAATACTATATTGTTGGTTG	v—v v—v v—v v—v	QY 421 TGGCCATTTGTCATCCTCTGACATACATGACCTCATGAGCTCAAGAGCTGCTGGCTCA 480 Db 421 TGGCCATTTGTCATCCTCGCATCCTCATGAGCTCAAGAGCCTGCTGGTCATACA 480 QY 481 TGGTGGCCACGTCCTGGATCCTGGCATCCCTAATATATACGTGTATACCA 540 Db 481 TGGTGGCCACGTCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACGTGTATACCA 540 CO 541 TGCACTATCCTTCTGGAGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACCA 600 Db 541 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTCTGAGATCCCACACT 600 CO 541 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTCTGTGAGATCCCACACT 600 QY 601 TGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGTGATGTGATGTGTGTG
	Oy 421 TOGCCATTTGTCATCCTCTGACATCATCACCCTCATGACTCAAGAGCCTCCTGGCTCA 480 421 TOGCCATTTGTCATCCTCTGACATCATCATCATGACTCCAAGAGCCTCCTGGCTCA 480 421 TOGTGGCCACGTCCTGGACTCCTAAGAGCCTCCTGGCTCAAGAGCCTCCTGGCTCAAGAGCCTCCTGGCTCAAGAGCCTCCTGAGTAACCA 540 481 TOGTGGCCACGTCCTGGAATCCCTAATATATACCGTGTATACCA 540 481 TOGTGGCCACGTCCTGGAATCCCTAATATATACCGTGTATACCA 540 541 TOGCCTATCCTTCTGGAATCCCACACT 600 541 TOCCCTATCCCTTCTGGAATCCCACACT 600 541 TOCCTATCCCTTCTGCAGAATCAGGCATCTTCTCTGTGAATCCCACACT 600 541 TOCCTATCCCTTCTGCAGAGCCCAGGAATCAGGCATCTTCTCTGTGAATCCCACACT 600 541 TOCTGAAGTTGGCCTGTGAATACCTCCAGATATGGTAATATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGATAACCTCCCAGATATGGGTAATATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATACCTCCCAGATATGAGCTCATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATACCTCCCAGATATGAGCTCATGGTAATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATATGAGATATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATATGAGCTCATGGTAATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATATGAGCTCATGGTAATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATATGAGCTCATGGTAATGTGATGGGTG 660 601 TOCTGAAGTTGGCCTGAATATGAGCTCATGGTAATGTGATGGGTAATGTGAATGTGAATGTGAATGTGAATGTGAAT	661 T C C C C C C C C C C C C C C C C C C	QY 901 CCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGGGGCCTTGAGGAGGG 960 Db 901 CCCTGAATCCACTCATCTACAGCAATAAGGAGGTCATGCGGGCCTTGAGGAGGG 960 CCTGAATCCACTCATCTACAGCAATAAGGAGAATAAGGAGGCTTGAGGAAGGG 960 QY 961 TCCTGGGAAAATACATGCTGCCAGCACTCCACGCTCTAGGGAAGGA 1008 Db 961 TCCTGGGAAAATACATGCTGCCAGCACTCCACGCTCTAGGGAAGGA 1008 RESULT 2 1 TCTGGGAAAAATACATGCTGCCAGCTCCACGCTCTAGGGAAGGA 1008 RESULT 2 1 Sphication US/09974149 Bublication No. US20030175705A1 3 GENERAL INFORMATION: APPLICANT: Burgess, Catherine E

181 TACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCATGTACCTCCTGCTTG 241 GGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGCATGTCCCCAAGGCCCTTGCGG 241 GGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGCCATCTCCCAAGGCCCTTGCGG 301 ACTTTCTGCGCAGAAAAACACCATCTCTTTGGAGGCTTGCCCTTGCGG 301 ACTTTCTGCGCAGAAAAACACCATCTCTTTGGAGGCTTGCCCTTCAGATGTTCCTGG 301 ACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTTCAGAGGCCTTTGCGG 301 ACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTTCAGGCCTTCAGAGGCCTTGCTGG 301 ACTTTCTGCGCAGAGAAACACCATCCTTTTGGAGGCTTCAGGCCTTCAGAGGCCTTCGGGTATG 421 TCTGACAATGGGTGGTGCTGAGAGCCTCCTAGAGGCCTTCAGGGTATG 421 TGGCCATTTGTCATCTCTGACATCATGACCTCCAAGAGCCTGCTGGTATG 421 TGGCGCCTTTGTCATCGCCTGGCATCCTCAAGAGCCTCAGGGTATACCAGGTATACCAGGCTCATGAGGCCTCATGAGGCCTCATGAGGCTCAAGAGCCTCATGAGGCTCA 481 TGGTGGCCACGTCCTGGCATCCCTAAGAGCCTCATAATATACCGTGTATACCAG 481 TGCTGGCCACGTCCTGGCATCCCTAAGAGCCCTCATAATATACCGTGTATACCAG 681 TGCTGCCCACTCTCTGCAGATCCCTAAGAGCCCTCATAATAATACCGTGTAATACCAG 681 TGCCACTACTCCTGCAGGCCCCTAATAATAACCGTGTAATAACCAG	Decay Transport Transpor	RESULT 4 US-09-777-789-10 Sequence 10, Application US/09777789 ; Publication No. US20030087815A1 ; GENERAL INFORMATION: APPLICANT: Padigaru et al. ; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME ; TITLE REFERENCE: 15566-654 ; CURRENT APPLICATION NUMBER: US/09/777,789 ; CURRENT FILING DATE: 2001-05-11 ; PRIOR FILING DATE: 2000-007 ; NUMBER OF SEQ ID NOS: 101 ; SOFTWARE: PATENTIN Ver. 2.0 ; SOFTWARE: 1008 ; TYPE: DNA ; TYPE: DNA
0y 661 TGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCTATACACAAATTCTACTCA 720 bb 661 TGACCTTCCTGATTCCCTCTTGCTGCTGCTATACTGCACTATACACAAATTCTACTCA 720 crgrdcTCCTTTTCCTTCTTGCTTCTTTGCTTTTCTTCTTCCT 780 cy 721 CTGTGCTCCATATGCCATCAAATGAGGGGAGAAAAGCCCTTGTCACCTGCTCTTCCC 780 oy 781 ACCTGACTGTGGGTTGGGATTCTATGGGGAGAAAGCCCTTGTCACTGCTCTTCCC 780 oy 781 ACCTGACTGTGGGTTGGGATGTTCTATGGGGAGAAAGCCCTTGTCACGTTTTCTTGCCCAGTT 840 dy 841 ACCTGACTGGGTTGGGATGTTCTATGGGGCTGCCACATTCATGTTTTCTGCCCAGTT 840 dy 841 ACCTTCCACAGCACACACAACAACATCATCTCTGTTTTTCTACACAATTGTCACCCCAGTT 840 bb 841 ACCTTCCACAGCACACACACACATCATCTTTTTTTTTCTACACAATTGTCACCCCAGTT 840 oy 901 CCCTCCAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCCTTCAGGGAGGG	RESULT 3 US-09-974-591-11 Sequence 11, Application US/09974591 Publication No. US20030059830A1 GENERAL INFORMATION: APPLICANT: Alsobrook II, John P APPLICANT: Burgess, Catherine E APPLICANT: Burgess, Catherine E APPLICANT: Lepley, Denie M APPLICANT: Lepley, Denie M APPLICANT: Lepley, Denie M APPLICANT: Lepley, Denie M APPLICANT: Receptor-like Polypeptides and Nucleic Acids Encoding TITLE OF INVENTION: NO. US2003005830A1e1 Single Nucleic Acids Encoding TITLE OF INVENTION: Leb Same TITLE OF INVENTION: Leb Same TITLE OF INVENTION: Receptor-like Polypeptides and Nucleic Acids Encoding TITLE OF INVENTION: Leb Same TITLE OF INVENTION: Sold-10-09 FILE REFERENCE: 15966-654 CIP CURRENT FILING DATE: 2001-11-02 SOFTWARE: ParentIn Ver. 2.1 SEQ ID NO: 1 SEQ ID NO: 1 SEQ ID NO: 2 NUMBER OF SEQ ID NOS: 26 SOFTWARE: ParentIn Ver. 2.1 SEQ ID NO: 2 SEAUTH: Home sapiens PATURE: DNA ORGANISM: Home sapiens FATURE: NAME/KEY: CDS NOS-09-974-591-11	Query Match 99.8%; Score 1006.4; DB 10; Length 1008; Best Local Similarity 99.3%; Pred. No. 0; Matches 1007; Conservative 0; Mismatches 1; Indels 0; Gaps 0; QY 1 AGCTGGAGATCTGGAACTTCACAGGATGGAGCTCTGGAACTACCACAGCATGGAGCTCT 60 60 60 QY 61 GGAACTTCACCTTGGAACTTCATTTTGGTGGGATTCTGAATGACAGCACTGGGCTCT 120 120 QY 62 GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTTC 120 QY 62 GGAACTTCACTTACAATTACAATCCTATACTTGTAATGACGGATTCTGAATGGCCTG 120 QY 121 CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180 QY 122 CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180 QY 121 CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180 QY 121 CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180 QY 181 TACTGCTCTGGCTACCAATGCACAAGGCCCTGATCAGATCGCCTGATCAGATGGCC 180 QY 181 TACTGCTCTGGCTACCAATGCACAAGGCCCTGATCACTGTTGTG 240

US-09-777-789-10

```
APPLICANT: Alsobrook II, John P
APPLICANT: Alsobrook II, John P
APPLICANT: Burgess, Catherine B
APPLICANT: Burgess, William M
APPLICANT: Lepley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spytek, Kimberly A
APPLICANT: Bader, Joel S
APPLICANT: Bansal, Aruna
TITLE OF INVENTION: Methods of Use for No. US20030175705Alel Single Nucleotide
TITLE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polymorphisms of TITLE OF INVENTION: and Nucleic Acids Encoding the Same
TITLE OF INVENTION: and Nucleic Acids Encoding the Same
TITLE OF INVENTION NUMBER: US 009/974,149
CURRENT FILING DATE: 2002-05-20
PRIOR FILING DATE: 2001-09-20
NUMBER OF SEQ ID NOS: 26
SOUTHWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTCTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGAACTGCTCTGTGCTACAATTACAATCCTATTGTTGGCCCTGATCAGCAATGGCC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CACTGACAATGGGGGGGGGGCGCGCCCCCCTACTGGCCTTCATGGCCTATGACAGGTATG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTITICHGCGCAGAGAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCCTGG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTITICIGCGCAGAGAAACACCAICICCITIGGAGGCIGIGCCCIICAGAIGIICCIGG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             redredecacercerearicerescarecerasticerantarariariaecereirariaeca 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AGCTGGAGATCTGGAACTTCCACAGCATGGAGCTCTGGAACTACCACAGACATGGAGCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TACTECTICATION CONTROL TACTECTION OF THE CONTROL OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGCAGCTCTCTCTCAFGGACCTCCTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCAGCTCTCTCTCTCATGGACCTCCTGTTCACATCTGTTGTCACTCCCAAGGCCCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CACTGACAATGGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCCATGTACCTCCTGCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGGCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCTGGAGATCTGGAACTTCCACAGCATGGAGCTCTGGAACTACCACAGACATGGAGCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 10; Length 1008;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
99.8%; Score 1006.4;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1007; Conservative 0; Mismatches
                                                            ; Sequence 11, Application US/09974149; Publication No. US20030175705A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , NAME/KEY: CDS
, LOCATION: (27)..(998)
US-09-974-149-11
        RESULT 5
US-09-974-149-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGIH: 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Pa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ठ
                                                              ö
                                                                                                                                                                                                                            GGAACTICACCITGGGAAGTGGCTICATITIGGTGGGGATICTGAATGACAGTGGGTCTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                960
                                                                                                                                                                                                                                                                                  GGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGACAGTGGGTCTC 120
                                                                                                                                                                                                                                                                                                                                      CTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180
                                                                                                                                                                                                                                                                                                                                                                                    CTGAACTGCTCTGTGCTACAATTCAATCCTATACTTGTTGGCCCTGATCAGCAATGGCC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTITICIGCGCAGAGAAACACCCAICTCCTITGGAGGCTGTGCCCTICAGAIGTICCTGG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      960
                                                                                                                     9
                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGTCACTCCCAAGGCCCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCCTCAAGAGCCTGCTGGCCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCCTGCTGCTGCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTCCACAGCACCAGACAACAACATCATCTCTGTTTTCTACACAATGTCACTCCAG
                                                                                                                  1 AGCTGGAGATCTGGAACTTCCACAGCATGGAGCTCTGGAACTACCACAGCATGGAGCTCT
                                                                                                                                                                      adcrideadarcrideaacrideacardeagercrideaacraceacadearcrer
                                                                                                                                                                                                                                                                                                                                                                                                                                                TACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCCATGTACCTCCTGCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTATGACAGGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cactigacaargggrgcrgcrgaggaccrccracrggccrrcarggccrargacaggrarg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACCGTGTATACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCACTATCCCTTCTGCAGGCCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGTGCTCCATATGCCATCAAATGAGGGAGGAAGAAAAAAAGCCCCTTGTCACCTGCTCTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGTGCCTCCATATGCCATCAAATGAGGGGAAGAAAAGAAAAGCCCTTGTCACCTGCTCTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTTCCACAGCACCAGACAACATCATCTCTGTTTTTTTACACAATTGTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ccrigariccacicarciacaecrigaegaaraagaagaicarecegeccrigaegaege
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACT
                                                                 Gaps
        Length 1008;
                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCTGGGAAAATACATGCTGCCAGCACACTCCAGGCTCTAGGGAAGGA 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAGGGAAGGA 1008
                                                              1; Indels
        DB 10;
  Score 1006.4; Pred. No. 0; O; Mismatches
  99.8%;
ilarity 99.9%;
Conservative
Query Match
Best Local Similarity
Matches 1007; Conser
                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
```

δ

qq

П ð d ð g ò 셤 ò 셤 ò g ò ద ઠે g ð g ð g

ઠે

Oy 283 CTCCCAAGGCCCTTGCGCACTTTCTGCGCAGAAAAACACCATCTCTTTGGAGGCTGTG 342	QY 343 CCCTTCAGAIGHTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCA 402	Qy 403 TGGCCTALGACAGTALGTGGCCALTTGTCALCCTCTGACATACATGACCTCATGACT 462	OY 463 CAAGAGCCTGCTCATGGTGCCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAA 522	Oy 523 TATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTC 582	Oy 583 TCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCA 642	Qy 643 TGGTATATGTGATGGATCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCT 702	Db 724 ATACACAAATTCTACTCACTGTGCTCCATAGACGGGGGGGG	Oy 763 TIGICACCIGCICITCCCACCIGACIGGGAIGTICIAIGGGAGCIGCCACAITCA 822	823		904 ACACASTIGICACICCAGAGAGATACCAGACATACATGCTGCCAGCACACTCCAGGTCTAGG	Db 964 TGCGGGCCTTGAGGAGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAGG 1023	1003 GAAGGA	Db 1024 GAAGGA 1029	RESULT 7 US-10-017-161-309 ; Sequence 309, Application US/10017161 ; Publication No. US20030143668A1 ; GENERAL INPORMATION: ; APPLICANT: SUMA, MAKIKO ; APPLICANT: AATYAMA, YUTAKA ; APPLICANT: ABURATANI, HIROYUKI ; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS ; FILE REFERENCE: 084335/0152 ; CURRENT APPLICATION NUMBER: US/10/017,161 ; CURRENT FILING DATE: 2001-06-18 ; NUMBER OF SEQ ID NOS: 2430 ; SEC ID NO 309 ; LENGTH: 1351
Qy 541 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACT 600 bb 541 TGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACACT 600	Qy 601 TGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660 Db 601 TGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660	QY 661 TGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCTATACACAAATTCTACTCA 720	QY 721 CTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGGCCCTTGTCACCTGCTCTTCCC 780 DD 721 CTGTGCTCCATATGCCATCAAATGAGGGAAGAAAGCCCTTGTCACCTGCTCTTCCC 780	Qy 781 ACCTGACTGTGGGATGTTCTATGGAGCTGCCACATTCATGTATGT	Qy 841 CCTTCCACAGCACCAGACAACAACATCATCTCTGTTTTCTACACAATTGTCACTCCAG 900	Qy 901 CCCTGAATCCACTCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCCTTGAGGAGG 960 Db 901 CCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGCCTTGAGGAGG 960	OY 961 TCCTGGGAAAATACATGCTGCCAGCACACTCCTGGGGAAGGA 1008	RESULT 6 US-09-777-789-8	Sequence 8, Application US/09777789; Publication No. US20030087815A1; GENERAL INFORMATION:	<pre># APPLICANT: Padigaru et al. ## TITLE OF INVENTION: PLOYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME ## FILE REFERENCE: 15966-654 ## CURRENT APPLICATION NUMBER: US/09/777,789</pre>	; CTRRENT FILING DATE: 2001-05-11 ; PRIOR APPLICATION NUMBER: 60/180,646 ; PRIOR FILING DATE: 2000-02-07	; NUMBER OF SEQ ID NOS: 101 ; SOFTWARE: Patentin Ver. 2.0	; SEQ ID NO 8 ; IENGTH: 1050 ; TYPE: DNA	; ORGANISM: Homo sapiens US-09-777-789-8	S Na

Oy 943 TGCGGGCCTTGAGGAGGTCCTGGGAAAATACATGCTGCCAGCACACTCCAGGCTCTAGG 1002	RESULT 8 US-10-292-798-275 Sequence 275, Application US/10292798 Sequence 275, Application WS/10292798 Publication No. US2003023833A1 GRNERAL INFORMATION: APPLICANT: SURA, MAKIKO APPLICANT: ARIANA, YURKA TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS TITLE OF INVENTION UNMER: US/10/292, 798 PRIOR PILING DATE: 2001-10-18 PRIOR PELING DATE: 2001-06-18 PRIOR FILING DATE: 2001-06-18 NUMBER OF SEQ ID NOS: 2070 SOFTWARE: PARENT IN VET. 2.1 SEQ ID NO 275 LENGTH: 1351 TYPE: DNA ORGANISM: Homo sapiens PRATURE: LOCATION: (1)(1351) FRATURE: LOCATION: (1)(1351) FRATURE: NAME/KEY: CDS US-10-292-798-275	Query Match 95.5%; Score 962.8; DB 16; Length 1351; Best Local Similarity 99.8%; Pred. No. 7.38-308; 0; Matches 964; Conservative 0; Mismatches 2; Indels 0; Gaps QY 43 ACCACAGCATGGACTCTGCACTCACTTGGGAAGTGCTTATTTGGGGGATTC 252 QY 103 TGAATGACGATGGGTCTCCTGAACTTCACTTGTGATTTTTGGTGGGGATTC 252 QY 103 TGAATGACGATGGGTCTCCTGAACTGCTCTGTGCTACATTACATTTTGTTGGGGGATTC 252 QY 103 TGAATGACGATGGGTCTCTGTGCTCTGTGCTACATTACATTCTTTTGTGGGGATTC 252 QY 163 CCTGATCAGCAATGGCTACTGTGCTCTGTGCTACATTCTTTTTGTGGGGGTTCATTTTTTGTGGGGGTCCTGTTGTTGAAGTCCTTTTTTGTGGAGGTCTCTTTTTTGTGGAGGTCTCTTTTTTTGTGAGGTCTCTTTTTTTGTGAGGTCTCTTTTTTTT
TYPE: DNA ORGANISM: Homo Bapiens FEATURE: FEATURE: LOCATION: (1)(1351) FEATURE: FEATURE: FEATURE: LOCATION: (201)(1151) LOCATION: (201)(1151) US-10-017-161-309	Outery Match 95.5%; Score 962.8; DB 15; Length 1351; Best Local Similarity 99.8%; Pred. No. 7.3e-308; 0; Gaps 0; Matches 964; Conservative 0; Mismatches 2; Indels 0; Gaps 0; QY 43 ACCACAGCATGGAGCTCTGGAACTCACCTTGGAAACTCATTTGGTGGGATTC 252 103 TGAATGACATGGAGCTCTGAACTTCACCTTGGAAATTACATTTGGTGGGATTC 252 QY 103 TGAATGACAGTGGGTCTCTGAACTGCTTGGTAATTACATTTGTGGGGATTC 252 104 105 107 107 107 107 107 107 107 108 108 108 108 108 108 108 109<	QY 463 CAAGAGCCTGCTGGTCATGGTGGCCACGTCCTGGATCCTGGCATCCTTAAGTGCCCTAA 522 bb 613 CAAGAGCTGCTGGTGGCCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAA 672 CAAGAGCTGCTGGCTCATGGTGGCCTCTGCTGGATCCTGGCAGATCCCTAAGTGCCCTAC 732 CY 523 TATATACCGTGTATACCATTCCCTTCTGCAGGGCCCAGGAGATCAGGCCTCTC 732 CY 673 TATATACCGTGTATACCATTCCCTTCTGCAGGGCCCAGGAGATCAGGCTCTC 732 CY 643 TATATACCGTGTATACCATGCACTATCCCTTCTTGCTGATACCTCCAGGATATGAGTCA 792 CY 643 TCTGTGAGATCCCACACTTGCTGATTCCCTCTTTGCTGCTATACTGGCTCCT 792 CY 643 TCTGTGAGATCCCACACTTGCTGATTCCCTCTTTTGCTGCTATACTGGCTCCT 792 CY 643 TCGTATATGTGATGGTGTGACTTCCTGATTCCTCTTTGCTGCTATACTGGCCTCT 792 CO 793 TCGTATATGTGATGGTGTGACTTCCTGATTCCTCTTTGCTGCTCTTTGCTCCTCT 792 CY 763 TAACACAATTCTACTCACTGTGCTCCATATGCCACTCAAATGGGGGAGAGAAAAGGCCC 792 CO 763 TTGTCACTGCTCTTCCCCTCTTTGTTCTTCTTGTTCTCA 972 CO 763 TTGTCACTGCTCTTCCCTCATTGGTTGGTTCTATGGAGGAGGAAAAAGCCC 762 CO 763 TTGTCACTGCTCTTCCCCCCCTGAATGGTTCTATGGAGATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT

350

```
GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCC
                                                            GCCCTTGCGGACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                              301 ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781 TTGCCCAGTTCCTTCCAGCACCAGACAAGACAACATCATCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCATGTAC
                                                                                                                                                                 GCCCTTGCGGACTTTCTGCGCAGAAAAACACCATCTCCTTTGGAGGCTGTGCCTTTCAG
                                                                                                                                                                                                                                ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                           GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                                                                                                                                                      TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                                                                                                                                                                                                                                                                                                                                                                                 GTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGATGGGTGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTCTACTCACTGTGCTCCATATGCCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661 ATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TIGCCCAGITCCITCCACAGCACCAGACAACAICATCICIGITTICIACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 10

US-09-804-291-198

US-09-804-291-198

Sequence 198, Application US/09804291

Publication No. US20030088059A1

GENERAL INFORMATION:

APPLICANT: ZOZULA, SERGEY

TITLE OF INVENTION: HUMAN OLFACTORY RECEPTORS AND GENES ENCODING SAME

FILE REFERENCE: P 0278005

CURRENT APPLICATION NUMBER: US/09/804,291

CURRENT FILING DATE: 2001-03-13

PRIOR APPLICATION NUMBER: 60/188,914

PRIOR APPLICATION NUMBER: 60/192,033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGAGGAGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAG 1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGAGGAGGGTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     951
                                                                                                                                    181
                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                            171
                                                                                                        231
                                                                                                                                                                   291
                                                                                                                                                                                                                                351
                                                                                                                                                                                                                                                                                           411
                                                                                                                                                                                                                                                                                                                                                      471
                                                                                                                                                                                                                                                                                                                                                                                                                 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                        상
                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                 ∂
                                                                                                      Š
                                                                                                                            g
                                                                                                                                                        ò
                                                                                                                                                                                           임
                                                                                                                                                                                                                    ⋧
                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                             \delta
                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                 1032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1002
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1093 TGCGGGCCTTGAGGAGGGTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAGG 1152
                                                                                                                                    642
                                                                                                                                                                                                                                                           762
                                                                                                                                                                                                                                                                                         912
                                                                                                                                                                                                                                                                                                                        822
                                                                                                                                                                                                                                                                                                                                                     972
                                                                                                                                                                                                                                                                                                                                                                                     882
                                                                                                                                                                                                                                                                                                                                                                                                                                                942
                                                                           582
                                                                                                      732
                                                                                                                                                                   792
                                                                                                                                                                                                 702
                                                                                                                                                                                                                                852
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  111 AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATC 170
                                           672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 198, Application US/09886055

Fatent No. US2002012273A1

GENERAL INFORMATION:

APPLICANT: STRYER, LUBERT

APPLICANT: STRYER, LUBERT

TITLE OF INVENTION: RECEPTOR FINGERPRINTING, SENSORY PERCEPTION,

TITLE OF INVENTION: BLOSENSORS OF CHEMICAL SENSANTS

TITLE OF INVENTION: BLOSENSORS OF CHEMICAL SENSANTS

FILE REFERENCE: 078003-0277150

CURRENT APPLICATION NUMBER: US/09/886,055

CURRENT FILING DATE: 2001-06-22

FRIOR APPLICATION NUMBER: 60/213,812

PRIOR FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 522

SEQ ID NO 198

SEQ ID NO 198
                                                                         renargicinecedaginecinecacaccacaccacaccaccaccancarciciter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCGGGCCTTGAGGAGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 Argeadcricigaacricaccrigagaagiggcricarriggigggaarrcrgaargac
                                                                                                                                                                                                                                                                                                                        TIGICACCIGCICITCCCACCIGACIGIGGITGGGAIGITCIAIGGAGCIGCCACAITCA
                                           caagagccrgcrggcrcarggrggccacgrccrgarccrggcarcccraagrgcccraa
                                                                                                                                      TCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGATACCTCCAGATATGAGCTCA
                                                                                                                                                      TCTGTGAGATCCCACACTTGCTGAAGGTGGCCTGTGCTGATACCTCCAGATATGAGCTCA
                                                                                                                                                                                                 TGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCCTCCT
                                                                                                                                                                                                                 TGGTATATGTGATGGGTGTGCTTCCTGATTCCCTCTTGTTGCTGCTATACTGGCCTCCT
                                                                                                                                                                                                                                                              ATACACAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCC
                                                                                                                                                                                                                                                                            ATACACAAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCC
                                                                                                                                                                                                                                                                                                                                                     rrercacerecreeredacreregrangearereraresacereceaerrea
                                                                                                                                                                                                                                                                                                                                                                                                                                                ACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 947.8; DB 9;
Pred. No. 5.8e-303;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       51 ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94.0%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 99.8'
Matches 949; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1003 GAAGGA 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAAGGA 1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: DNA
; ORGANISM: Homo
US-09-886-055-198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SULT 9
-09-886-055-198
                                           613
                                                                           523
                                                                                                      673
                                                                                                                                    583
                                                                                                                                                                   733
                                                                                                                                                                                                 643
                                                                                                                                                                                                                              793
                                                                                                                                                                                                                                                           703
                                                                                                                                                                                                                                                                                         853
                                                                                                                                                                                                                                                                                                                        292
                                                                                                                                                                                                                                                                                                                                                      913
                                                                                                                                                                                                                                                                                                                                                                                     823
                                                                                                                                                                                                                                                                                                                                                                                                                 973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92
Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                    g
                                                                 8 6
                                                                                                                         장염
                                                                                                                                                                                              ò
                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

420

530

650 600 710 660 720

780

```
ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCCTTGCGGACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCCTTGCGGACTTTCTGCGCAGAGAAACACATCTCCTTTGGAGGCTGTGCCCTTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCTCATGAGTCATGAGGCC 470
661 ATTCTACTCCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAGACCCCTTGTCACC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09
                                           rrecceaerrecritecadedecadedadadadadarererererereradadadarr
                                                                                                                                                                                                                                                     Greatrecagecergaarecacreareracagecreaggaaraaggaggreargeggee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCTGCTTGGGCTCTCTCTCTCATGGACCTCCTGTTCACATCTGTTGTTGTCCCCAAG
                                                                                                                            TTGCCCAGTTCCTTCCACAGCACCAGACAACATCATCTCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGTCACTCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAŢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGGATTCTGAATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                               TTGAGGAGGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAG 1001
                                                                                                                                                                                                                                                                                                                                      951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            o;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 951;
                                                                                                                                                                                                                                                                                                                       901 TIGAGGAGGGTCCTGGGAAAATACATGCTGCCAGCACCACTCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                 GS-10-343-650A-513

Sequence 513, Application US/10343650A

Publication No. US20040067499A1

Publication No. US20040067499A1

SERNERAL INFORMATION:

APPLICANT: HAGA, TATSUVA

TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR

FILE REFERENCE: 31671-186347

CURRENT APPLICATION NUMBER: US/10/343,650A

CURRENT APPLICATION NUMBER: US/200/237818

PRIOR RILING DATE: 2000-08-04

PRIOR FILING DATE: 2000-08-04

PRIOR FILING DATE: 2001-02-13

NUMBER OF SEQ ID NOS: 694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 947.8; DB 13;
Pred. No. 5.8e-303;
0; Migmatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94.0%;
milarity 99.8%; Conservative 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; LOCATION: (1)..(951)
US-10-343-650A-513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 949; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Pati
SEQ ID NO 513
LENGTH: 951
                                                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             411
                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                         771
                                                                                                                            831
                                                                                                                                                                                                              891
                                                                                                                                                                                                                                                                                               951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE
                                                                                                                                                           셤
                                                                                 d
                                                                                                                          à
                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                   d
                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        П
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ArdGAGCrCrGGAACTrCACCTrGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGIGGGICICCIGAACIGCICIGIGCIACAATIACAAICCIAIACTIGITIGGCCCIGAIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCTACCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACACATCTGTCGTCACTCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCTGCTTGGGCGCTCTCTCTCTCTCTCTCTTTCATGATCTCTCTTGTTGTCACTCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCCCTTGCGGACTTTCTGCGCAGAGAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 GCCCTTGCGGACTTTCTGCGCAGAAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 GACAGGTATGTGGCCATTTGTCATCCTCTGACATGACCCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCCCACACTTGCTGAAGTTGGCCTGTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATCCCACACTTGCTGAAGGTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGATGGGTGTGTCCTTCCTGTTCCCTCTTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGATGGGGTGTGGCCTTCCTGATTCCCTCTTGCTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      51 ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGGATTCTGAATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       111 AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGGCCCTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCCGGCTCCACATGCCCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 947.8; DB 10;
Pred. No. 5.8e-303;
0; Mismatches 2;
             PRIOR APPLICATION NUMBER: 60/198,474
PRIOR FILING DATE: 2000-04-14
PRIOR FILING DATE: 2000-04-24
PRIOR FILING DATE: 2000-04-24
PRIOR PILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: 60/207,702
PRIOR APPLICATION NUMBER: 60/207,702
PRIOR FILING DATE: 2000-05-25
PRIOR FILING DATE: 2000-06-16
PRIOR FILING DATE: 2000-08-16
PRIOR FILING DATE: 2000-09-17
PRIOR PLING DATE: 2000-09-17
PRIOR PLING DATE: 2000-09-07
PRIOR PLING DATE: 2001-02-07
PRIOR PLING DATE: 2001-02-07
PRIOR FILING DATE: 2001-02-07
PRIOR FILING DATE: 2001-02-07
PRIOR PLING DATE: 2001-02-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.0%;
  2000-03-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Homo sapiens
US-09-804-291-198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 949; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                471
```

셤 ઠે 엄

qq

ò a

ठे

ò

셤

ò

g

8

셤

ò

g

ਨੇ g ò d ò

ò

셤

ò

```
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601 /
                                                                                                                                                                                                                                                                                                                                                                                                351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         661
                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                       171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                         231
                                                                                                                                                                                                                                                                                                                                            291
                                                                                                                                                                                                                                                                                                                                                                                                                                                   411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    841
                                                                                Query Match
                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                        원
                                                                                                                                                                                                        QQ
                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                             PP
                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \overset{>}{\circ}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                 ò
                                                                                                                                                                                   ò
                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                        ₽
                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                  \dot{\delta}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \dot{\delta}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                420
                                       530
                                                                  480
                                                                                           590
                                                                                                                   540
                                                                                                                                             650
                                                                                                                                                                       009
                                                                                                                                                                                                 710
                                                                                                                                                                                                                        099
                                                                                                                                                                                                                                                  770
                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                      830
                                                                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                                                         890
                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                            950
                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/186,854; 60/188,384; 60/190,453; 60/190,730
PRIOR APPLICATION NUMBER: 60/186,854; 60/188,384; 60/190,453; 60/190,730
PRIOR FILING DATE: 2000-03-03; 2000-03-10; 2000-03-17; 2000-03-20
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PERL Program
SEQ ID NO 39
LENGTH: 951
TYPE: DNA
GACAGGTATGTGGCATTTGTCATCCTCTGACATACATGACCCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                GTGATGGGGTGTGACCTTCCTGATTCCCTCTTGCTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                    TIGCCCAGTICCTICCACAGCACCAGACAACAICAICTCTGTTTTTCTACACAATI
                                                                                                                                                                                                                                                                                                                                                                        TTGCCCAGTTCCTTCCAGGCACCAGACAAGACAACATCATCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                            GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
                                       TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                         GTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                   481 GTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                             ATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                       541 ATCCCACACTTGCTGAAGGTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                GTGATGGGTGTGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                            GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
                                                                                                                                                                                                                                                  ATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TIGAGGAGGICCIGGGAAATACAIGCIGCCAGCACACICCACGCICIAG 1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGAGGAGGGTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: INAITE GENOMECS, INC.
APPLICANT: INAITE GENOMECS, INC.
APPLICANT: TANG, Y. Tom
APPLICANT: PATTERSON, Chandra
APPLICANT: SHIM, Leo L.
APPLICANT: TRIBOULEY, Catherine
APPLICANT: TRIBOULEY, Catherine
APPLICANT: YUE, Henry
APPLICANT: YUE, Henry
APPLICANT: YUE, Henry
APPLICANT: YUE, Jannifer L.
APPLICANT: AU-YOUNG, Jannifer L.
APPLICANT: AU-YOUNG, Jannice
APPLICANT: WALSH, Roderick T.
APPLICANT: WALSH, ROGETICK T.
APPLICANT: WALSH, ROGETICK T.
APPLICANT: WALSH, ROGETICK T.
APPLICANT: BOROWSKY, MARK L.
TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
TILLE REFERENCE: PL - 10044 PCT.
CURRENT FILLING DATE: 2001-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 39, Application US/10220382
; Publication No. US20030119111A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: Lal., Preeti
TANG, Y. TOM
APPLICANT: PATTERSON, Chandra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-220-382-39
                                                                                                                                                                                                                                                                            199
                                       471
                                                                 121
                                                                                           531
                                                                                                                                             591
                                                                                                                                                                                                 651
                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                  711
                                                                                                                                                                                                                                                                                                    771
                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                        831
                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                            891
                                                                                                                                                                                                                                                                                                                                                                                                                                    841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        106
                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                          Вb
                                                                                                                                                                                                                                                                                                                           qq
                                                                                                                                                                                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                      ò
                                                              g
                                                                                         à
                                                                                                              g
                                                                                                                                          ò
                                                                                                                                                                    a
                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                ₽
```

```
ö
                                                                                                                                                                                                   110
                                                                                                                                                                                                                                                                                        170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             710
                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                230
                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 CTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTTGTCACTCCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 GCCCTTGCGGACTTTCTGCGCAGAAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301 ATGTTCCTGGCACTGACAATGGGTGGTGGTGAGGACCTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    51 ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGAC
                                                                                                                                                                                                                                          Aredadericregaaerreacerregaaagregerrearrrregregegarrergaargae
                                                                                                                                                                                                                                                                                          111 AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATC
                                                                                                                                                                                                                                                                                                                           61 AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCCTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTAGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCTGGCTCATGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541 ATCCCACACTTGCTGAAGGTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTCTACTCACTGTGCTCCATATTGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCAAATGAGGGGAGGAAGAAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGCCCAGTTCCTTCCACAGCACCAGACAACAACATCATCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAAGGAGGTCATGCGGGCC
                                                                                                                                                                                                                                                                                                                                                                             AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGGCTCCACATGCCCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                       Accaarceccracrecrescrarcaccarsaacccesscrecarscrars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCTGCTTGGGCAGCTCTCTCTCTGAACCTCCTGTTCACATCTGTCGTCACTCCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCCTTGCGGACTTTCTGCGCAGAGAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGTATACCATGCACTATCCCTTCTGCAGGGCCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGATGGGTGTGACCTTCCTGATTCCCTCTTGCTGCTATACTGGCCTCCTATACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Greatesergreaccricerearrecerererrecreeraracrescerecrearacaea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGCCCAGTTCCTTCCACAGCACCAGACAACAACATCATCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGAGGAGGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAG 1001
                                                                                                                                                       ;
                                                                                                                951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGAGGAGGCTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAG
FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. US20030119111A1 7472446CB1
US-10-220-382-39
                                                                                                              Length
                                                                                                                                                       Indels
                                                                                                              DB 15;
                                                                                                         Score 947.8; DB 15;
Pred. No. 5.8e-303;
0; Mismatches 2;
                                                                                                              94.0%;
99.8%;
                                                                                                                                   Local Similarity 99.8
nes 949; Conservative
```

```
APPLICANT: Swithson, Glennda
APPLICANT: Stone, David
APPLICANT: Stone, David
APPLICANT: Stone, David
APPLICANT: Stone, David
APPLICANT: Bin-Yang, Ruey
APPLICANT: Conley, Pamela B.
APPLICANT: Tomlinson, James E.
APPLICANT: Topper, James N.
APPLICANT: Casman, Stacie J.
APPLICANT: Casman, Stacie J.
APPLICANT: Shomit, Edinger R.
APPLICANT: McTobugall, John R.
APPLICANT: Shomit, Edinger R.
APPLICANT: Shomit, Bainger R.
APPLICAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
541 ATCCCACACTTGCTGAAGGTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT 600
                                                                                                                                                                                                                                  99 ATTCTGAATGACAGTGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTG 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68 ATTCTGAATGACAGTGGGTCTCCTGAACTGCTCTATGCTACATTTACAATCCTATACATG 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           159 TTGGCCCTGATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCAC 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             67
                                                           GIGAIGGGIGIGACCTICCTGAITCCCTCTCTTGCTGCTATACTGGCCTCCTAIACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTCACTCCAGCCCTGAATCCACTCAACAGCCTGAGAAGAATAAGGAGGTCATGCGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           39 AACTACCACAGCATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 AAAAACACATCATGGAGCTCCGGAACTCCACCTTGGGAAGCGGCTTCATCTTGGTGGGG
                                                                                                                  Grearesergreaccritecrearrecererrecreeraracresecreeraracaaa
                                                                                                                                                                             ATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTCACC
                                                                                                                                                                                                                                                                                                                                                                                                                   TTGCCCAGTTCCTTCCACAGCACCAGACAAGACATCATCTCTGTTTTCTACACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781 TTGCCCAGTTCCTTCCACAGCAGACAAGACAACATCATCTCTGTTTTCTACACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAGGTCATGCGGGCC
                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTGAGGAGGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAG 1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 977;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               901 TTGAGGAGGGTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 832.4; DB 15; Length:
Pred. No. 1e-264;
0; Mismatches 86; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/10024444B ; Publication No. US20030165858A1 ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gerlach, Valerie L. Smithson, Glennda Stone, David Bin-Yang, Ruey Conley, Pamela B. Hart, Matthew Tomlinson, James E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Padigaru, Muralidhara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        82.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 91.1%;
Matches 884; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-10-024-444B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-024-444B-1
                                                           651
                                                                                                                  109
                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                             711
                                                                                                                                                                                                                                                                                                771
                                                                                                                                                                                                                                                                                                                                                                                                                   831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                               a
                                                                                                                                                                          ઠે
                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                    \delta
                                                                                                                                                                                                                                                                                                                                                                                                                ठ
                                                                                                      Sequence 25, Application US/10300846

Publication No. US20030207337A1

GENERAL INFORMATION:
APPLICANT: HAN, YI
APPLICANT: ECHSUERI, FERNANDO
APPLICANT: BCHSUERI, FERNANDO
APPLICANT: MANG, KUN
TITLE OF INVENTION: OLFACTORY RECEPTORS FOR ISOVALERIC ACID AND RELATED
TITLE OF INVENTION: MALODORANTS AND USE THEREOF IN ASSAYS FOR
TITLE OF INVENTION: DEBNITFICATION OF BLOCKERS OF MALODOR
FILE REFERENCE: 078003-0291224
CURRENT APPLICATION NUMBER: US/10/300,846
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: 60/348,371
PRIOR PLING DATE: 2001-03-13
PRIOR PLING DATE: 2001-03-13
PRIOR PLING DATE: 2001-03-13
PRIOR PLING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PARENTIN VET: 2.1
SEQ ID NO 25
EMBIGH: 951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCCCTTGCGGACTTTCTGCGCAGAAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGTTGGCCCTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    51 ATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGGATTCTGAATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 Arggagcrcrcgcaacrrcaccrrcacaagrcgcrrcarrrrcgrcgcgarrcrgaargac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       111 AGTGGGTCTCCTGAACTGCTCTGTGCTACAATTACAATCCTATACTTGGCCCTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGCTCCACATGCCCATGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTCGTCACTCCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 CICCIGCTIGGGCAGCICTCICTCAGACCICCTGTICACAICTGTIGTAGACCICCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 GCCCTTGCGGACTTTCTGCGCAGAAAACACCATCTCCTTTGGAGGCTGTGCCCTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      351 ATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCCTTCATGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 Argricciescacreacaareserscreaceasecreacerecreacererar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATATACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGTATACCATGCACTATCCCTTCTGCAGGCCCCAGGAGATCAGGCATCTTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GACAGGTATGTGGCCATTTGTCATCCTCTGACATACATGACCTCATGAGCTCAAGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 16; Length 951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 947.8; DB 16
Pred. No. 5.8e-303;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 99.8%;
Matches 949; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-300-846-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         411
```

g

ઠે g ò

g ò g ਨੋ

ठ

셤

qq

Š

입

à

셤 ð

ò

셤 ò g ò g ð gg δ g ò g δ g à 쉽 ò g $\dot{\delta}$ Op ð g à d ð ద δ g

```
227
                                                                                                                                                                                                                                                                                                                                                                                                     948 GCCTTGAGGAGGGTCCTGGGAAATACATGCTGCCAGCACACTCCACGCTCTAGGGAAGG 1007
                                                                                                                                                                                                                                                                                                                                     287
                                                                                                                                                                                                                                                                                                                                                 61 TACCTCCTGCTTGGGCAGCTCTCTCTCATGGACCTCCTGTTCACATCTGTTGTCACTCCC 120
                                                                                                                                                                                                                                                                                                                                                                                           347
                                                                                                                                                                                                                                                                                                                                                                                                                                               407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       947
                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                               168 ATCAGCAATGGCCTACTGCTCCTGGCTATCACCATGGAAGCCCGGGCTCCACATGCCCATG
                                                                                                                                                                                                                                                                                                        Accadedatecretecretecretecarcatacaacatececeare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 228 TACCTCCTGCTTGGGCAGCTCTCTCTCATGAACCTCCTGTTCACATCTGTCGTCACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGATGTTCCTGGCACTGACAATGGGTGCTGAGGACCTCCTACTGGCCTTCATGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCCCTAATATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCTGCTGGATCATGGTGGCCACATCCTGGATCCTGGCATCCCTGATTGCTATAGGACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAGATCCCACACTTGCTGACAGTTGGCCTGTGCTGATACCTCCAGATATGAGCTCATGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAGGCCCTTGCGGACTTTCTGCGCAGAAAAAACACCATCTCCTTTGGAGGCTGTGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCATGTACACTATGCACCTCCCTTTCTGTGTCTCCTGGGAAATCAGGCATCTGCTCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          racercaretracercratecratecrateracerateracearizated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCGTGTATACCATGCATATCCCTTCTGCAGGGCCCCAGGAGATCAGGCATCTTCTCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420 GAGATCCCACCCTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGGTATGAGCTTATAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATGTGATGGGTGTGACCTTCCTGATTCCCTCTTTGCTGCTATACTGGCCTCCTATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAAATTCTACTCACTGTGCTCCATATGCCATCAAATGAGGGGAGGAAGAAAGCCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCTGCTCTTCCCACCTGACTGTGGTTGGGATGTTCTATGGAGCTGCCACATTCATGTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCTTGCCCAGTTCCTTCCACAGCACCAGACAACATCATCTCTGTTTTCTACACA
                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                       1;
                                                                                                                                                                                                                            DB 15; Length 1033;
                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                         Score 713.8; DB 15;
Pred. No. 2.2e-225;
0; Mismatches 72;
     PRIOR APPLICATION NUMBER: JP 2001/246789
PRIOR FILING DATE: 2001-06-18
NUMBER OF SEQ ID NOS: 2430
SOFWARE: Patentin Ver. 2.1
SEQ ID NO 635
LENGTH: 1033
                                                                                                                                                                                                                        Query Match
Best Local Similarity 91.3%;
Matches 768; Conservative
                                                                                  TYPE: DNA ORGANISM: Homo sapiens FEATURE: NAME/KEY: source LOCATION: (1)..(1033) FEATURE:
                                                                                                                                                                  ; NAME/KEY: CDS
; LOCATION: (201)..(833)
US-10-017-161-635
                                                                                                                                                                                                                                                                                                                                                                                        288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                          348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                828
                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                        \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      рp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                338
                                                                       247
                                                                                                                                                      398
                   187
                                            278
                                                                                                                           307
                                                                                                                                                                                                           458
                                                                                                                                                                                                                     367
                                                                                                                                                                                                                                                               518
                                                                                                                                                                                                                                                                         CTAATATATACCGTGTATACCATGCACTATCCCTTCTGCAGGGCCCAGGAGATCAGGCAT 578
                                                                                                                                                                                                                                                                                                                                              547
                                                                                                                                                                                                                                                                                                                                                                        638
                                                                                                                                                                                                                                                                                                                                                                                                  607
                                                                                                                                                                                                                                                                                                                                                                                                                            698
                                                                                                                                                                                                                                                                                                                                                                                                                                                      667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rccracacacraricacraricacrirerangecarcaaridagggaggaagaaa 727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  847
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            196
                                                                                                                                                                GTCACTCCCAAGGCCCTTGCGGACTTTCTGCGCAGAAAAACACACCATCTCCTTTGGAGGC
                                                                                                                                                                                                                                                           AGCTCAAGAGCCTGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGCATCCCTAAGTGCC
                                                                                                                                                                                                                                                                                                                                488 AIAGGACAIACCAIGIACACIAIGCACCICCCITICIGIGIGICCIGGGAAATCAGGCAI
                                                                   Areccenteracticerectresecascicitererearesecrectericaearerer
                                                                                                                        Greacheceaagecerregeceacrirerececacacaaaacacrarerecriregagec
                                                                                                                                                   TGTGCCCTTCAGATGTTCCTGGCACTGACAATGGGTGGTGCTGAGGACCTCCTACTGGCC
                                                                                                                                                                                                       CTTCTCTGTGAGATCCCACACTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGATATGAG
                                                                                                                                                                                                                                                                                                                                                                                       CTGCTCTGTGAGATCCCACCCTTGCTGAAGTTGGCCTGTGCTGATACCTCCAGGTATGAG
                                                                                                                                                                                                                                                                                                                                                                                                                        CTCATGGTATATGTGATGGGTGTGACCTTCCTGATTCCCTCTCTTGCTGCTATACTGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCTTGTCACCTGCTCTTCCCACCTGATTGTGGTCGGGATGTTCTATGGAGCTGCCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCATGCGGGCCTTGAGGAGGTCCTGGGAAAATACATGCTGCCAGCACACTCCACGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              chrahananaracereaesieresentricerentecreecentricieceantreresee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCCTTGTCACCTGCTCTTCCCACCTGACTGTGGGATGTTCTATGGAGCTGCCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTCATGTATGTCTTGCCCAGTTCCTTCCACAGCACCAGACAAGACAACATCTCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTCTACACAATTGTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGAATAAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: SUWA, MAKIKO
APPLICANT: SUWA, MAKIKO
APPLICANT: AKYYAMA, YUTAKA
APPLICANT: AKYYAMA, YUTAKA
APPLICANT: ABUBATANI, HIROYUKI
TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 084335/0152
CURRENT APPLICATION NUMBER: US/10/017,161
CURRENT FILLING DATE: 2002-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 635, Application US/10017161
Publication No. US20030143668A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAGGGAAGGA 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAGGGAAGGA 977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-017-161-635
                                                                    188
               128
                                          219
                                                                                              279
                                                                                                                        248
                                                                                                                                                   339
                                                                                                                                                                            308
                                                                                                                                                                                                                                                                                                                519
                                                                                                                                                                                                                                                                                                                                                                                               548
                                                                                                                                                                                                      399
                                                                                                                                                                                                                                368
                                                                                                                                                                                                                                                           459
                                                                                                                                                                                                                                                                                                                                                                    579
                                                                                                                                                                                                                                                                                                                                                                                                                                                  608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   848
                                                                                                                                                                                                                                                                                                                                                                                                                        639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   666
```

g à

780 GCCTTGAGGAGGGTCCTGGGAAAATACATACTGCTGGCACATTCCACGCTCTAGGGAAGG 839

1008 A 1008

g ò q

840 A 840

Search completed: September 14, 2004, 08:51:39 Job time: 533 secs

us-09-974-591-14.rapb

```
September 13, 2004, 17:53:06; Search time 128 Seconds (without alignments) 811.746 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                        US-09-974-591-14
1659
1 MELWNYHSWELWNFTLGSGF......WRALRRVLGKYMLFAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cgn2 6/ptodata/2/pubpaa/US07 PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/US07 PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/US07 NEW PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/US06 NEW PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/US06 PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/US07 NEW PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/US08 PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/US107 PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1335176
GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1335176 segs, 320689617 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                        OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database
                                                                                                                                                                                                                                                Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		Description	Sequence 12, Appl	Sequence 14. Appl	11,	Sequence 12, Appl		97.	Þ	Sequence 197. Ann	Sequence 53. Appl	Sequence 58, Appl			310	Sequence 3 Appli	Sequence 26, Appl
		ID	US-09-974-591-12	US-09-974-591-14	US-09-777-789-11	US-09-974-149-12	US-09-974-149-14	US-09-886-055-197	US-09-777-189-9	US-09-804-291-197	US-09-912-976-53	US-09-965-422-58	US-10-343-650A-514	US-10-220-382-18	US-10-017-161-310	US-10-024-444B-3	US-10-300-846-26
		DB	10	10	10	10	10	σ	10	10	11	11	12	14	14	14	15
	Query	Length	324	324	324	324	324	316	316	316	316	316	316	316	316	316	316
₩	Query	Match	100.0	100.0	100.0	100.0	100.0	8.96	8.96	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
,-		Score	1659	1659	1659	1659	1659	1606	1606	1606	1606	1606	1606	1606	1606	1606	1606
	Result	No.	п	7	m	4	5	و	7	80	6	10	11	12	13	14	15

Sequence 276, App	Sequence 2, Appli	4	42	Sequence 46, Appl	47,	48	52,	Ŋ	7, 4	10	51,	5	50	9	9	51	4,	49	59	Sequence 71, Appl	10	50,	57,	636	57,	457	49,	Ŋ	68,
5 US-10-292-798-276	t US-10-024-444B-2	0 US-09-777-789-41	US-09-777-789-42	US-09-777-789-46	US-09-777-789-47	US-09-795-271-48	US-09-912-976-52	L US-09-965-422-56	1 US-10-024-444B-7	5 US-10-005-041A-104	US-09-912-976-51	US-10-024-444B-5	US-09-912-976-50	US-09-965-422-60	US-10-024-444B-6	US-09-795-271-51	US-10-024-444B-4	US-09-795-271-49	US-09-965-422-59	US-09-981-566A-71	S US-10-005-041A-105	US-09-795-271-50	US-09-965-422-57	US-10-017-161-636	US-09-886-055-457		. US-09-912-976-49	. US-09-965-422-53	. US-09-981-566A-68
16 19	16 14	16 10	16 10	16 10	16 10	16 10	16 11	16 11	16 14	16 15	16 11	16 14	16 11	16 11	16 14	16 10	16 14	15 10	15 11	315 11	15 15	19 10	19 11	210 14	6 69	59 10	311 11		11 11
96.8		81.2	81.2	81.2 31	81.2	81.2 3			81.2							78.4 3				74.5 33								50.4 33	.4 3
1606	1393	1347	1347	1347	1347	1347	1347	1347	1347	1347	1309	1309	1305	1305	1305	1300	1300	1235.5	1235.5	1235.5	1235.5	1223	1223	-		839.5	2	835.5	835.5
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: George, William M
APPLICANT: Lepley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spytek, Kimberly A
ITLE OF INVENTION: No. US20030059830Alel Single Nucleotide Polymorphisms for Olfacton
ITLE OF INVENTION: The Same
ITLE OF INVENTION: The Same
FILE REFERENCE: 15966-654 CIP
CURRENT APPLICATION NUMBER: US/09/974,591
CURRENT APPLICATION NUMBER: 60/245,292
PRIOR FILING DATE: 2000-11-02
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 12
LENGTH: 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 ARLHMPMYLLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 ARIHWPMYLLIGGLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLALISNGLLLLAITWE 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 324;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match

100.0%; Score 1659; DB 10;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0;
Sequence 12, Application US/09974591
Publication No. US20030059830A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
CRGANISM: Homo sapiens
US-09-974-591-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
```

```
US-09-974-149-12.

US-09-974-149-12.

US-09-974-149-12.

US-09-974-149-12.

US-09-974-149-12.

US-09-97-97-97-97-95-91

US-08-08-91

US-08-08-91

US-08-08-91

US-08-91

US-08-92

US-08-92

US-08-92

US-08-93

US-08-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 ILLAFWAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EIRHLLCEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 EIRHLICEIPHLIKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLIVLHMPSNE 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 ARLHMPMYLLIGGLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LLLAFMAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTWHYPFCRAQ 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 ARLHMPMYLLLGQLSIMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MELWNYHSWELWNFTLGSGFILVGILNDSGSPELLCATITILYLALISNGLLLLAITME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITME
                                       Sequence 11, Application US/09777789;
Publication No. US20030087815A1
GENERAL INFORMATION:
APPLICANT: Padigaru et al.
TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
TITLE REFERENCE: 1596-654
CURRENT APPLICATION NUMBER: US/09/777,789
CURRENT PILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/180,646
PRIOR APPLICATION NUMBER: 60/180,646
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ·:
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 1659; DB 10; Length 324; 100.0%; Pred. No. 4.9e-150; ive 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best_Local Similarity 100.
Matches 324; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-974-149-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-777-789-11
                             US-09-777-789-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 324
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Alsobrook II, John P
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Burgess, Catherine E
APPLICANT: Lepley, Denise M
APPLICANT: Lepley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Sytek, Kimberly A
APPLICANT: Sytek, Kimberly A
APPLICANT: Padigaru, Muralidhara
APPLICANT: Padigaru, Muralidhara
APPLICANT: Sytek, Kimberly A
APPLICANT: Sor INVENTION: the Same
FILE REPERENCE: 1596-654 CIP
CURRENT PILING DATE: 2001-10-09
PRIOR APPLICATION NUMBER: 60/245,292
PRIOR APPLICATION NUMBER: 60/245,292
PRIOR APPLICANTON NUMBER: 0200-11-02
NUMBER OF SEQ ID NOS: 26
NUMBER OF SEQ ID NOS: 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 ARLHMPMYLLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTWGGAED 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 LELAFMAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTWHYPFCRAQ 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 EIRHLLCEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 ARLHMPMYLLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED 120
                                    240
                                                                                                                                                                                                                                                      241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                       241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLAITME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 EIRHLLCEIPHLLKGACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITME
                                                                                                                                                             LILLAFMAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTWHYPFCRAQ
                                                                                                                             EIRHLLCEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 100.0%; Pred. No. 4.9e-150; Matches 324; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                   301 RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 14, Application US/09974591
Publication No. US20030059830A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
CORGANISM: Homo sapiens
US-09-974-591-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 2
US-09-974-591-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                ਨੇ
                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                              d
                                                                                                                                                                                                                                                             ठे
```

m

240 240

```
241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRODNIISVFYTIVTPALNPLIYSL 300
241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTRODNIISVFYTIVTPALNPLIYSL 300
IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 IPHLLKVACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              249 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 300
                                                                                                                                                               181 BIRHLICEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE
                                                                                                                                      BIRHLLCEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE
                                                           LILAFMAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTWHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 LILGQLSLMDILFTSVVTPKALADFIRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 197, Application US/09886055
Fatent No. US2002013227341
GENERAL INFORMATION:
TEDEL INFORMATION:
TITLE OF INVENTION: RECEPTOR FINGERPRINTING, SENSORY PERCEPTION, AND TITLE OF INVENTION: BIOSENSORS OF CHEMICAL SENSANTS
FILE REFERENCE: 078003-0277150
CURRENT APPLICATION NUMBER: US/09/886,055
CURRENT APPLICATION NUMBER: 06/213,812
PRIOR APPLICATION NUMBER: 06/213,812
PRIOR FILING DATE: 2000-06-22
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 522
SOFTWARE: PATENTIN VOR: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96.8%; Score 1606; DB 9; Length 3
99.7%; Pred. No. 5.5e-145;
ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                             RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 99.7
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-886-055-197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-886-055-197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-777-789-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    189
                      61
                                                                                                  121
                                                                                                                                      181
                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       129
                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                         à
                                                                                         g
                                                                                                                                  à
                                                                                                                                                               g
                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        dd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Alsobrook II, John P
APPLICANT: Alsobrook II, John P
APPLICANT: Burgess, Catherine B
APPLICANT: Grosse, Milliam M
APPLICANT: Burgess, Milliam M
APPLICANT: Lepley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spytek, Kimberly A
APPLICANT: Bansal, Aruna
ITILE OF INVENTION: Methods of Use for No. US20030175705Alel Single Nucleotide
ITILE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polypeptides
ITILE OF INVENTION: and Nucleic Acids Encoding the Same
FILE REFERENCE: 15966-654UB
CURRENT APPLICATION NUMBER: 60/323,755
PRIOR APPLICATION NUMBER: 60/323,755
PRIOR PLING DATE: 2001-09-20
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patentin Ver: 2.1
                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                LLLAFMAYDRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
                                                                                                                                                                                                                                                                                                                                                                       241 GRKKALVICSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 ARLHMPMYLLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED 120
                                                                                                                                                                                             9
                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MELWNYHSWELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLAATTWE 60
                                                                                                                                                                                                                        1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITWE
                                                                                                                                                                                                                                                                       ARLHMPMYLLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAED
                                                                                                                                                                                                                                                                                             EIRHLLCEIPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRKKALVICSSHLIVVGMFYGAATFMYVLPSSFHSTRODNIISVFYTIVTPALNPLIYSL
                                                                                                                                                                                           1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MELWNYHSMELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITME
                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                         .
0
                                                                                                                    Length 324;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 100.0%; Score 1659; DB 10; Length 324; Best Local Similarity 100.0%; Pred. No. 4.9e-150; Matches 324; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                       Indels
                                                                                                                    DB 10;
                                                                                                                Query Match
100.0%; Score 1659; DB 10;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301 RNKEVMRALRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 14, Application US/09974149; Publication No. US20030175705A1; GENERAL INFORMATION:
          LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-149-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-974-149-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                         ð
                                                                                                                                                                                                                          Db
                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                   qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

ö

9

```
US-09-804-291-197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             309
                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                            염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTFALNPLIVSLRNKEVMRA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  69 LLLGQLSLMDLLFTSVVTPXALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DRYVAICHPLIYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 IPHLLKVACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CSSHLTVVGMPYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: ZOZULA, SERGEY
TITLE OF INVENTION: HUMAN OLFACTORY RECEPTORS AND GENES ENCODING SAME
FILE REFERENCE: P 0278005
CURRENT APPLICATION NUMBER: US/09/804,291
CURRENT PILING DATE: 2001-03-13
FRIOR PPLICATION NUMBER: 60/188,914
FRIOR APPLICATION NUMBER: 60/188,914
FRIOR PILING DATE: 2000-03-23
FRIOR PILING DATE: 2000-03-24
FRIOR FILING DATE: 2000-04-24
FRIOR FILING DATE: 2000-04-14
FRIOR FILING DATE: 2000-04-14
FRIOR FILING DATE: 2000-04-24
FRIOR FILING DATE: 2000-04-24
FRIOR FILING DATE: 2000-04-24
FRIOR FILING DATE: 2000-06-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MELWNFTLGSGFILVGILNDSGSPELCATITILYLLALISNGLLLAITMEARLHMPNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             189 IPHILKLACADISRYELMVYVMGVIFLIPSLAAILASYTQILLIVLHMPSNEGRKKALVI
Sequence 9, Application US/09777789
Publication No. US20030087815A1
GRNERAL INFORMATION:
GRNERAL INFORMATION:
GRIERAL INFORMATION:
TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME FILE REPERENCE: 15966-654
CURRENT PAPLICATION NUMBER: US/09/777,789
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/180,646
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver: 2.0
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
o
                                                                                                                                                                                                                                                                                                                                                                                                          Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                       Score 1606; DB 10;
Pred. No. 5.5e-145;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2000-06-23
APPLICATION NUMBER: 60/226,534
FILING DATE: 2000-08-16
APPLICATION NUMBER: 60/230,732
FILING DATE: 2000-09-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 197, Application US/09804291 Publication No. US20030088059A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.7%;
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                 LENGTH: 316
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -09-804-291-197
                                                                                                                                                                                                                                                                                                                                                                   6-684-777-00-SD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
```

```
ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPPCRAQEIRHLLCE 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DRYVAICHPLIYMTLMSSRACWIMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 IPHILKVACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                           1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          69 LILIGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                           9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Lepley, Denise M
APPLICANT: General John R
APPLICANT: Smithson, Glennda
APPLICANT: Machaen, Glennda
APPLICANT: Mishra, Vishuu
IITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 21402-070
CURRENT APPLICATION NUMBER: US/09/912,976
CURRENT FILING DAIE: 2001-07-05
                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                               Length 316;
                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                               Score 1606; DB 10;
Pred. No. 5.5e-145;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE: 2001-07-05
PRIOR APPLICATION NUMBER: 60/221,336
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/238,333
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: 60/20,675
PRIOR APPLICATION NUMBER: 60/21,025
PRIOR APPLICATION NUMBER: 60/21,025
PRIOR PRILING DATE: 2001-02-22
PRIOR PRILING DATE: 2001-03-23
PRIOR FILING DATE: 2001-03-23
PRIOR PLILING DATE: 2001-03-23
PRIOR PLILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/266,862
PRIOR FILING DATE: 2001-02-07
NUMBER OF SEQ ID NOS: 529
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 53, Application US/09912976 Publication No. US20030212255A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Padigaru, Muralidhara
APPLICANT: Mezes, Peter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                  96.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Burgess, Catherine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 2001-04-02
NUMBER OF SEQ ID NOS: 99
SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Casman, Stacie
Grosse, William M
                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 99.7
Matches 315; Conservative
                                                                                                                                                                                                ORGANISM: Homo sapiens
```

g

ò

d

ਨੇ

g

à

d

à g ð

ð

```
0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 189 IPHILIKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQIILTVLHMPSNEGRKKALVT 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    249 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 LLIGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTWHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              129 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 514, Application US/10343650A

Publication No. US20040067499A1

GENERAL INFORMATION:

APPLICANT: HAGA, TATSUYA

TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR

TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR

CURRENT APPLICATION NUMBER: US/10/343,650A

CURRENT FILING DATE: 2003-07-21

PRIOR APPLICATION NUMBER: US 2000-037818

PRIOR APPLICATION NUMBER: JD 2011/34434

PRIOR FILING DATE: 2001-02-13

NUMBER OF SEQ ID NOS: 694

SEQ ID NO 514

LENGTH: 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1606; DB 11;
Pred. No. 5.5e-145;
1; Mismatches 0;
PRIOR APPLICATION NUMBER: 60/260,338
PRIOR FILING DATE: 2001-01-08
PRIOR FILING DATE: 2001-01-08
PRIOR PLING DATE: 2001-01-17
PRIOR PLING DATE: 2001-01-17
PRIOR PILING DATE: 2001-01-18
PRIOR PILING DATE: 2001-01-18
PRIOR PILING DATE: 2001-01-19
PRIOR PILING DATE: 2001-01-19
PRIOR PILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/263,691
PRIOR APPLICATION NUMBER: 60/264
PRIOR APPLICATION NUMBER: 60/266,109
PRIOR PILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 60/271,634
PRIOR FILING DATE: 2001-02-26
NUMBER OF SEQ 1D NOS: 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  309 LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 99.7'
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT;
CRGANISM: Homo sapiens
US-09-965-422-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT; ORGANISM: Homo sapiens
US-10-343-650A-514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-343-650A-514
                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 58
LENGTH: 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THIS OF THING DATE: 2000-10-13

PRIOR PELICATION NUMBER: 60/236,422

CURRENT APPLICATION NUMBER: 05/242

CURRENT APPLICATION NUMBER: 05/242

CURRENT FILING DATE: 2001-09-27

PRIOR APPLICATION NUMBER: 60/236,284

PRIOR PELING DATE: 2000-09-28

PRIOR PILING DATE: 2000-09-28

PRIOR PILING DATE: 2000-10-28

PRIOR PILING DATE: 2000-10-28

PRIOR FILING DATE: 2000-10-03

PRIOR PILING DATE: 2000-10-03

PRIOR PILING DATE: 2000-10-06

PRIOR PILING DATE: 2000-10-06

PRIOR PILING DATE: 2000-10-06

PRIOR PILING DATE: 2000-10-16

PRIOR PILING DATE: 2001-10-16
                                                                                                                                                                                                                                                                                                          128
                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                               188
                                                                                                                                                                                                                                                                                                                                                                                                                                          180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                           1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                        LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                           DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                      121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              189 IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                                                                     MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                            Gaps
                                                                                                                                                                            ·.
                                                                                                                                    Length 316;
                                                                                                                                                                            Indels
                                                                                                                                  DB 11;
                                                                                                                                                                               ö
                                                                                                                                  Score 1606; DB 11;
Pred. No. 5.5e-145;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 58, Application US/09965422 Publication No. US20030216545A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Casman, Stacie
Padigaru, Muralidhara
Dickson, Kevin
Vernet, Corine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gerlach, Valerie
Ellerman, Karen
Edinger, Shlomit
MacDougall, John R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRRVLGKYMLPAHSTL 324
                                                                                                                             Query Match
Best Local Similarity 99.7%;
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Spaderna, Steven K
Shenoy, Suresh G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Li, Li
Malyankar, Urial M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Spytek, Kimberly A
ARPLICANT: Casman, Stacie
APPLICANT: Padigaru, Muralidh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Smithson, Glennda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Taylor, Sarah
Gunther, Erik
                                                              ; ORGANISM: Homo sapiens US-09-912-976-53
  SEQ ID NO 53
LENGTH: 316
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-965-422-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    309
                                                                                                                                                                                                                                                                                                        69
                                                                                                                                                                                                                                                                                                                                                                                           129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
```

```
SEQ ID NO 310
LENGTH: 316
                                                                                                                                                                                                                                       249
                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                   309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                             129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           309
                                               69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                         g
                                                                                                                                   qq
                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ठ
                                             ò
                                                                                                             ò
                                                                                                                                                                        8
                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                    ö
                                                                                                                            128
                                                                                                                                                61 LLIGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGREDLLLAFWAY 120
                                                                                                                                                                                         188
                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                       248
                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                    CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                    241 CSSHLTVVGMPYGAATEMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIVSLRNKEVMRA 300
                                                                                             9
                                                                 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: LO, Terence P.

PPLICANT: LO, Terence P.

TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS

FILE REPERENCE: PI-0044 PCT

FILE REPERENCE: PI-0044 PCT

CURRENT APPLICATION NUMBER: US/10/220,382

CURRENT FILING DATE: 2001-03-01

PRIOR PILING DATE: 2001-03-03

PRIOR FILING DATE: 2000-03-03; 2000-03-10; 2000-03-17; 2000-03-20

NUMBER OF SEQ ID NOS: 42

SOFTWARE: PERL Program
                                                                                   1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLAITWEARLHMPMY
                                                                                                                                                                                          DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                           121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                       189 IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                                                                                                                         181 IPHLLKVACADTSRYELMVYWGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                              LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                               MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ô
                                  ò
    Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030119111A1 7472446CD1
US-10-220-382-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96.8%; Score 1606; DB 14; 99.7%; Pred. No. 5.5e-145; ive 1; Mismatches 0;
Score 1606; DB 12;
Pred. No. 5.5e-145;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18, Application US/10220382
Publication No. US20030119111A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: TANG. Y. TOM
APPLICANT: TANG. Y. TOM
APPLICANT: PATTERSON, Chandra
APPLICANT: PAO, Monique G.
APPLICANT: SHIH, Leo L.
APPLICANT: SHIH, Leo L.
APPLICANT: TRIBOULEY, Catherine
APPLICANT: TRIBOULEY, Catherine
APPLICANT: WIG, Henry
APPLICANT: WIG, Henry
APPLICANT: MAN, Farrah A.
APPLICANT: PANG, Junming
APPLICANT: HARLAND, Lee
APPLICANT: HARLAND, Lee
APPLICANT: HARLAND, Lee
APPLICANT: MALSH, ROGERICK T.
APPLICANT: MALSH, ROGERICK T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KHAN, Farrah A.
POLICKY, Jennifer L.
AU-YOUNG, Janice
YANG, Junming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TRIBOULEY, Catherine
LU, Dyung Aina M.
YUE, Henry
                                                                                                                                                                                                                                                                                                                                                                               LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                LRRVLGKYMLPAHSTL 316
 Query Match
Best Local Similarity 99.7%;
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 99.73
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER
SOFTWARE: ...
SEQ ID NO 18
LENGHH: 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-220-382-18
                                                                                                                                                                                         129
                                                                                                                                                                                                                                                                                                                    249
                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                 σ
                                                                                                                              69
                                                                                                                                                                                                                                                                                                                                                                                309
                                                                                                                                                                                                                                                                                                                                                Ωp
                                                                                                                                                                                                                        쉽
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                        g
                                                                                                                                                                                                                                                         à
                                                                                             셤
                                                                                                                              ò
                                                                                                                                                                                         ò
```

9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY

δ

```
ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CSSHLTUVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNDLIYSLRNKEVMRA 308
                                                                                                                                          188
                                                                                                                                                                                        180
                                                                                                                                                                                                                                       248
                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                           LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE 188
                                                                                        61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTWGGAEDLLLAFMAY 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I PHILIKVACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                       121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                             1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLALISNGLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                          DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                     189 IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: SUWA, MAKIKO
APPLICANT: ASAI, KIYOSHI
APPLICANT: ASAI, KIYOSHI
APPLICANT: AKIYAMA, YUTAKA
APPLICANT: ABURATANI, HIROYUKI
TITLE OP INVENTION: NOVYEL OF PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 084335/0152
CURRENT APPLICATION NUMBER: US/10/017,161
CURRENT FILING DATE: 2002-12-18
PRIOR PILING DATE: 2001-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 1606; DB 14;
Pred. No. 5.5e-145;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 310, Application US/10017161; Publication No. US20030143668A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 99.7%;
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 2430 SOFTWARE: Patentin Ver. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Homo sapiens
US-10-017-161-310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-017-161-310
```

g

```
TITLE OF INVENTION: OLDRACTORY RECEPTORS FOR ISOVALERIC ACID AND RELATED
TITLE OF INVENTION: OLDRACTORY RECEPTORS FOR TITLE OF INVENTION: DEDITITE OF BLOCKERS OF MALODOR
TITLE OF INVENTION: DEDITITE CATION OF BLOCKERS OF MALODOR
FILE REFERENCE: 078003-0221924
CURRENT APPLICATION NUMBER: US/10/300,846
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: 0/348,371
PRIOR PLING DATE: 2001-01-16
PRIOR PELING DATE: 2001-01-16
PRIOR PELING DATE: 2001-02-13
PRIOR PELING DATE: 2001-02-13
PRIOR PELING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872)
NUMBER OF SEQ ID NOS: 86
SOFTWARE: PALENTIN VENER (6/341,872)
NUMBER OF SEQ ID NOS: 86
SEQ ID NO 26
SEQ ID NO 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               249 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKEVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIPSLRNKEVMRA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 IPHLLKVACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFLALTMGGAEDLLLAFMAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 316;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 96.8%; Score 1606; DB 15;
Best Local Similarity 99.7%; Pred. No. 5.5e-145;
Matches 315; Conservative 1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Search completed: September 13, 2004, 18:07:04 Job time : 129 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 309 LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-300-846-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                 APPLICANT: Padigaru, Muralidhara
APPLICANT: Padigaru, Muralidhara
APPLICANT: Padigaru, Malerie L.
APPLICANT: Saithson, Glennda
APPLICANT: Saithson, Glennda
APPLICANT: Saithson, Glennda
APPLICANT: Stonie, David
APPLICANT: Conley, Pamela B.
APPLICANT: Conley, Pamela B.
APPLICANT: Tomlinson, James B.
APPLICANT: Tomlinson, James B.
APPLICANT: Tomlinson, James B.
APPLICANT: Tomlinson, James N.
APPLICANT: Agaie J.
APPLICANT: Achougall, John R.
APPLICANT: MacDougall, John R.
APPLICANT: Shlonit, Edinger R.
TITLE OF INVENTION: Same
FILE REFERENCE: 21402-224 AG
CURRENT APPLICATION NUMBER: US/10/024,444B
CURRENT APPLICATION NUMBER: US/202-12-19
PRIOR PILING DATE: 2000-12-18
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       129 DRYVAICHPLTYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIRHLLCE 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    189 IPHLLKLACADTSRYELMVYVMGVTFLIPSLAAILASYTQILLTVLHMPSNEGRKKALVT 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      249 CSSHLIVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLIYSLRNKBVMRA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 CSSHLTVVGMFYGAATFMYVLPSSFHSTRQDNIISVFYTIVTPALNPLINFLIYSLRNKEVMRA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 IPHLLKVACADISRXELMVYVMGVIFLIPSLAAILASYIQILLTVLHMPSNEGRKKALVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 DRYVAICHPLIYMTLMSSRACWLMVATSWILASLSALIYTVYTMHYPPCRAQBIRHLLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 MELWNFTLGSGFILVGILNDSGSPELLCATITILYLLALISNGLLLLAITMEARLHMPMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96.8%; Score 1606; DB 14; Length 316; 99.7%; Pred. No. 5.5e-145; ive 1; Mismatches 0; Indels 0;
                                                                                                                                      Sequence 3, Application US/10024444B Publication No. US20030165858A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 26, Application US/10300846; Publication No. US20030207337A1; GENERAL INFORMATION: APPLICANT: ZOZULYA, SERGEY APPLICANT: ECHEVERRI, FERNANDO
301 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRRVLGKYMLPAHSTL 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        309 LRRVLGKYMLPAHSTL 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best_Local Similarity 99.73
Matches 315; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: human
                                                                                RESULT 14
US-10-024-444B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
US-10-300-846-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-024-444B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
```

ð g ò g δ g

gg 8

à

ö